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Baltimore, Md., January 16, 1930

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MANUFACTURERS RECORD

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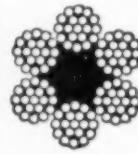
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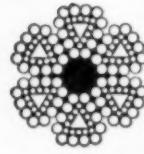
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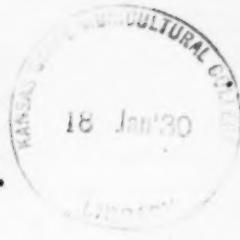
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Vol. XCVII No. 3
Weekly

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A Ringing Call to the South to Be on Guard

[*The following letter is of such vital importance to the South at the present time that we give it this editorial position.—Editor MANUFACTURERS RECORD.*]

National Association of Manufacturers,

Union Trust Building,

Washington, D. C., January 9.

Editor Manufacturers Record:

Our mutual friend, Mr. C. Edwin Michael, was good enough to call my attention to a recent letter of yours because of something I had written him with respect to the proposed unionization of the South.

Twenty-five years of close contact with labor problems in litigation and legislation, during exceptionally intimate relations with industrial executives and organizations, impress me with the unfortunate fact that the business men of the South are not awake to the situation which confronts them.

First of all, they are face to face not with a temporary movement or an emotional agitation, but an active and militant philosophy, firmly held, and for which thousands of men will make greater sacrifices than the average business man. Organized labor finds its most devoted adherents in those who, without its assistance, would not enjoy their present earnings. The higher grade of craftsmen, whose return is based upon efficiency, is least attached to organization. It is the man who gets through organization what he could not get without it that is its devoted adherent. Moreover, the agents of organized labor know their creed, are well read within the limits of their philosophy, and are practiced in the most feasible presentation of their case. The average business man, unhappily, is not given to general social or economic thinking. He is immersed in the detail of his business and fails to realize how powerfully its conduct is influenced in our day by the political and social movements which play upon it.

The South has enjoyed industrial liberty during the period of its emergence from agricultural to industrial development. Its people are homogeneous, possess common traditions and general devotion to elementary American principles and ideals. If they perceived fundamental antagonism between the philosophy of the A. F. of L. and the fundamentals of our constitutional theory, they would not easily be led astray. But the approach to them is exceptionally plausible. At this moment, the labor organizations appear in the South, preceded by a bitter blast against communism and socialism. They are given a most conservative air, but at the same time the same

organizations are presenting to Congress a revolutionary plan for the impairment of the authority of the Federal courts in labor controversies which, if successful, would except the labor combination from legal authority and liability. It would make it lawful for that combination to do what remains unlawful and criminal if done by any other combination under similar circumstances. Before this session is over you will see that legislation bitterly contested. I led the argument against its original form for five months last year, but it will now be renewed with increased determination. If wholly or partially successful, it will be offered for the imitation of the States and the whole judicial structure of the nation and the States will be profoundly affected.

I have noted with continuing interest the vigorous, intelligent and courageous contest which your publication has carried forward for the awakening of the South. I have talked to a number of Southern leaders who have been good enough to seek my counsel, and I hope they will awaken to a vigorous sense of the need of intellectually arousing the South to this effort to close the doorways of opportunity and destroy the freedom of business direction at a moment when that great section is coming into its own.

England stands at this moment in doubt and uncertainty because its industrial management has been cabined, cribbed and confined during the past two decades, until it is bound with restrictive practices, each rather inconsequential in itself but all binding English industry as the Lilliputians enmeshed Gulliver with threads. The United States, on the contrary, has enjoyed freedom in the direction of its production, distribution and communication. Business management has been free to work out its problems, apply the most approved methods and the newest processes. Its great manufacturing industries have been open to merit of every character, and the executive direction of its enterprises is therefore in the hands of men who have shown themselves most competent to manage them. The poorest boy has carried the baton of a business marshal in his tool kit.

Now, the South is threatened with exactly the handicapping controls which have made British recovery from the War so difficult and in some industries hopeless. If the South can be made to realize what the success of the A. F. of L. campaign means to industrial freedom, to successful business

direction, to retaining opportunity for Southern youth, and to giving every part of its rich domain the greatest chance for development for the welfare of its increasing population, I have no doubt of the outcome. But if business men remain smug and complacent and the community perceives only the superficial and plausible emotional appeals which float upon the surface of the argument, it will take years to recover from the injury that will be inflicted.

I hope you will pardon so lengthy a communication to you, but it arises from my interest in the contest, my realization of the gravity of the problem, and the wish to assure you of my appreciation of the campaign you have so intelligently and vigorously carried forward.

JAMES A. EMERY, General Counsel.

To every business man we commend this clear-cut truthful statement of the situation and the danger which threatens the South in the reported determination of the American Federation of Labor to control all labor in the South. No one is exempt from the influence thus put into force, which menaces the peace of Southern industry and trade. To meet this issue, the South must have the grit and the backbone which Los Angeles displayed and continues to display in its successful fight against domination by radical labor. Success under Open Shop principles has been largely responsible for making Los Angeles the outstanding city of this country in progress and prosperity. In an early issue we expect to tell the story of the fight made by Los Angeles, and to that story we invite the attention of every commercial organization and every individual business man in the country.

SHIPPING EAST INDIAN COTTON INTO THE UNITED STATES

TUOSIDAS KILACHAND, who was in Atlanta recently visiting Robert Hecht of the International Corporation, a cotton handling firm, and who has since then been traveling over the South studying the cotton situation, is reported by the Atlanta Constitution to be the directing head of a firm which handles 500,000 bales of India's cotton. He pays high tribute to the people of the South in saying:

"There is more sincerity here than in any other country I have visited. In this country I find that a visitor has only to present his card in order to be carried through the industrial plants, and that people will take time to show visitors courtesies lacking in other countries, in spite of your apparent hustle and hurry."

Mr. Hecht is reported as saying he is planning to handle Indian cotton direct to the United States; and although in the past few years a large amount of Indian cotton has been shipped to the South, he expressed the opinion that the shipments would be increased. "The Indian cotton," said he, "is of a much shorter staple than American cotton, and is rougher, being an entirely different variety, so that it competes with American low grade cotton and waste used in coarse yarns."

Thus the fact that Indian cotton is to be shipped to this country in larger amounts than heretofore, and that it does take the place of low grade cotton and waste used in coarse yarns, suggests the necessity of a duty on cotton to protect the cotton growers of the South from the India-raised cotton, produced by the most poorly paid laborers on the face of the earth.

COULD BE DUPLICATED BY MANY SOUTHERN MILLS

FROM the Charlotte Observer comes the following significant account of a recent gathering of cotton mill people: "It was in the banquet hall of the Charlotte Chamber of Commerce that an incident occurred Monday night of a kind that does not have general exploitation by the Menckens, the Brouns and writers of that class. It was a Christmas dinner given by a local mill owner—Mr. William Nebel—to the people who work in his mills. They assembled, 375 strong, a splendid looking body of young men and women, whose faces reflected the happiness they felt, and whose apparel indicated patronage of the best of modistes and haberdasheries. In fact, as one speaker remarked, a stranger dropping in would never have taken the gathering as that of a body of 'mill hands,' such as has been so often pictured to the public, but would rather be inclined to believe that he had dropped into an assemblage of Fifth Avenue society. The owner of the mills was present with his guests and incidental to the affair was a musical program in which the vocal talent of the mill people was abundantly in evidence, anthems and carols being included in the numbers. The fact that this particular Southern mill man regards his help as 'comrades,' and so treats them, was productive of evidence of appreciation in presentation by the mill people of an expensive steel engraving of George Washington, with engraved silver plate, indicating that it was token to 'our beloved president' of the esteem in which he is held by his comrades.

"Presentation of this gift was productive of the loudest applause of the evening. The affair gave demonstration of the mutual co-operation and good will existing between management and operatives, and is typical of the sentiment generally existing in Southern cotton mill communities, of particular manifestation during the holiday season."

We have seen hundreds of mill operatives that in a great gathering would be equal in behavior and in appearance to what the old darkies called "quality folks," equal to any college assembly we have even seen. And this friendly relationship as described in the editorial from the Charlotte Observer can be found in hundreds of other Southern mills.

In a subsequent issue of the Observer appears this statement concerning the thrift habits of the operatives:

"The Spartanburg correspondent of the New York Journal of Commerce is sending that paper a picture of mill life in Southern communities that is quite different from that the Communists would have the outside world believe—and what the correspondent has to say of the two mills applies in large measure to Southern mill settlements in general, for the story of thrift is duplicated in hundreds of instances over North Carolina. It is instanced that the units of Pacific Mills, located at Columbia, S. C., and at Lyman, in Spartanburg County, make a creditable showing in the habit of thrift. The Christmas savings club of the Lyman plant, with 270 members, realized a total of \$14,000, which was disbursed during the holidays. At Pacific Mills, in Columbia, there were some 1200 members of the savings club which disbursed a total of approximately \$30,000 for holiday expenses and incidentals. That was the first year for the Pacific Mill Club, but it will be continued.

"An official of a textile plant at Easley, S. C., states that when his mill was built there one of its initial workers offered to lend the company some money, provided the interest rate was attractive. Banks in the state offer from only 4 to 4½ per cent per annum on savings deposit. He told the man the mill company would pay him 6 per cent on the loan, expecting to handle something like one or two hundred dollars. He was surprised when his workman produced a roll and counted out \$1900, which he accepted and on which he has ever since, some six or seven years now, been paying 6 per cent annually. And that man's wages, says the official, are only \$29 a week. He has a family, and yet manages to provide for them and save money."

Let us be of good cheer remembering that the misfortunes hardest to bear are those which never come.—*Lowell*.

THE MOVE OF THE AMERICAN FEDERATION OF LABOR TO BREAK INTO THE SOUTH

THE report was sent out from Charlotte, N. C., that the American Federation of Labor, as shown in a report published elsewhere in this issue from the Charlotte News, would establish headquarters in Birmingham, selecting that city on the alleged ground that the Governor of Alabama had reported that he would welcome the organization into Alabama, and that in the event of any disturbance he would not call out troops. In reply to an inquiry as to whether this statement was true, Hon. Bibb Graves, Governor of Alabama, wired the MANUFACTURERS RECORD:

"I have never had a thought nor made an expression that would justify quotation contained in your wire."

We felt sure that no Governor in the South, and probably no Governor in the country, would presume to say that he would not call out State troops if necessary to protect the State against strike disturbances created by any effort of labor people to dominate the situation.

The correspondent of the MANUFACTURERS RECORD at Birmingham wires to this paper as follows:

"Some little apprehension is felt here that splendid conditions as regards good feeling between employers and labor will be disturbed when the American Federation of Labor opens Southern headquarters in Birmingham and begins spending the \$3,000,000 appropriated, indications being that the greater amount of the appropriation is to go to organizers who will be a disturbing element.

"Alabama Mining Institute, Secretary James L. Davison, said there is no necessity for invasion of organizers into a coal field where labor is being treated as fairly as here, where wages are being paid as well as could be expected with the competition as it is. Antagonism will be aroused. There is no ill treatment of labor, in fact, no justice in the organization forces coming into this territory. In textile circles the same opinion is expressed and the situation is being closely watched. Business men have given but little consideration beyond newspaper articles of plans to organize in the South, though financial circles have been advised of possible disturbance of good will between the interests as existing today."

The determination of the American Federation of Labor—which has been losing out in other sections, judged by the decline in its membership, and because of the determination of the American people not to be dominated by any outside dictatorial organization—to move into the South simply means that the business people and the free employees of the South must meet this situation with the determination that the American plan or Open Shop shall prevail throughout the South.

That question was fought out in Los Angeles to the bitter end many years ago, to the very great blessing of Los Angeles and to the enormous advancement of that city. It has been fought out in Dallas and other places with similar good results. During the next few weeks we shall give some remarkable facts in regard to the effort to prevent control of business interests by labor unions, dominated as most of them are today by radicalism, whether disguised or open.

OLDEST FARM PAPER IN AMERICA

THE Southern Planter of Richmond, Va., has celebrated its 90th anniversary with a special issue in which emphasis is laid upon the agricultural conditions prevailing throughout the South long prior to the Civil War, and since then. The Southern Planter was established in 1840; in 1851 it had a circulation of 1900; in 1893 its circulation was 20,000, and now it has a circulation of nearly a quarter of a million copies. That progress is due not only to the superior

ability of the Southern Planter, but also to the fact that there has been a steady advance in the determination of Southern farmers to keep up with the progress of events.

A FAMILY RECORD WHICH SHOULD BE AN INSPIRATION TO OTHERS

A SHORT time ago Mrs. John L. Williams of Richmond, a widow of John L. Williams who founded the banking house of John L. Williams & Sons, died, leaving behind 7 of the 9 children born to her, 47 grandchildren and 14 great-grandchildren; and referring to these descendants, the Richmond News-Leader editorially said: "There never has been one whose reputation was sullied or whose name was in any way discredited."

What a marvelous record for a family, to have been able to give to the world 9 children, of whom 7 are living, 47 grandchildren and 14 great-grandchildren, with every one having up to the present time lived a clean and unsullied life.

Mrs. Williams was the mother of John Skelton Williams, former president of the Seaboard Air Line and Comptroller of the Currency under President Wilson. A little story about Skelton Williams may be interesting in these days when so many people are drifting away from the fundamental things of life.

Some years ago the editor of this paper spent ten days on a private car of the president of the road, with some eight or ten of the directors. During that ten day trip, where fun and jollity prevailed and many jokes were told, there was never heard a word that could not have been uttered in the presence of ladies; not a joke that had the slightest tinge of uncleanness to it. On one Sunday morning when the car reached Savannah too late for the morning church service, Mr. Williams suggested the holding of a religious service in the car. He took the lead, but as we recollect it he called upon nearly every one of the directors to join in some part of the service. It was all done so quietly and with such a reverential air that it made an indelible impression upon the minds of those present. Their thoughts were turned from the material things of this world to the spiritual things that pertain to this world as well as to the world to come. Recently his brother Langbourne M. Williams, the head of the old banking firm, impressed by the fact that the Southern Churchman, an Episcopal religious paper, was drifting from the fundamental things, purchased it and is making it one of the sanest, soundest religious papers of the land, opposing everything which tends to draw people away from the old doctrines so firmly held and taught by his father and mother.

The tribute which the News-Leader was able to pay to the descendants of Mr. and Mrs. Williams was due to the fact that the home life of this family was as wellnigh perfect as the human heart could desire. It was a benediction to spend a few days, or a few hours, in the company of the father and mother of this host of descendants. Mr. Williams was a well-posted layman on the Bible, better able to quote it appropriately upon all occasions than any other layman whom we have ever had the pleasure of knowing; and he lived what he and Mrs. Williams taught to their children as they trained them up in the way in which all children should be trained. In these days when so many parents are failing of their duty to their children, so many professed Christians are drifting away from the fundamental things of life, and allowing their children to grow up without proper training in sound religious teachings, it is worth while even for a business paper to point the moral of the life which Mr. and Mrs. Williams led and which has found its fruition in such superb characters in children, in grandchildren, and which will in all human probability go on into the great-grandchildren and through generations to come.

ANOTHER COLLEGE MAN GOES WRONG ON SOUTHERN HISTORY

A FEW weeks ago we commented on the sad fact that Southern educators have in the past seemed to know so little about the South of olden days. Many have largely imbibed, apparently from Northern writings, the wrong idea that the men of the Old South were given wholly to cotton and slavery, and they think of the South of today as an entirely new and different region with a different spirit from that of the South of the days before the Civil War.

Another striking illustration of this is an address recently made by Dr. John J. Tigert, president of the University of Florida, before the National Association of Land Grant Colleges and Universities, in the course of which he said:

"The Old South, the South of slavery and secession, was an agricultural domain in which cotton was king, and there was strong antipathy to industry. Even on the cotton plantations the planters, who constituted the gentry of the Old South, did no real labor, riding about over their lands on horseback while slaves did the manual labor. Therefore, labor and industry came to have a certain stigma in the eyes of Southern people. In the last few years a transformation has begun and the New South has been born with a sympathetic attitude toward manufacturers."

A more thorough and intelligent study of the old South would have shown Dr. Tigert that up to 1812 the South was ahead of New England in manufacturing; that when the cotton gin was invented the demand for cotton was so great that for a time energies and capital of the South were poured largely into cotton growing; but that even in those days the South had to develop the engineering ability to establish thousands of cotton gins and the financial ability to provide banking resources to handle its cotton crop, for it did not then depend upon the North for its finances.

He might have reported that in those days New Orleans, for instance, was a great shipping center, and that the banks of Louisiana stood third in rank in amount of gold in the United States. Financial operations in the South in those days were one of the outstanding features of the life of that section. Moreover, it took great engineering ability and skill to establish all of the cotton gins and the cotton compresses and the facilities for handling cotton, which the Old South created.

A further study of the subject would have shown Dr. Tigert that from the days of the Revolution, on down for the next 40 or 50 years, the South turned its attention very largely to industrial development; that South Carolina offered a bonus during Revolutionary days for all the ironworks established in that state; that at Blacksburg, Spartanburg, Greenville, King's Mountain and other places in the Carolinas there were many important iron-making enterprises commanding so much attention that Swank in his "History of Iron In All Ages" said that the pioneers of those days "seemed to have been born with a genius for ironmaking."

Dr. Tigert spoke as though the South was given over wholly to cotton, but in 1860 the South raised 358,000,000 bushels of corn, or 44 per cent of the total crop of the country; 350,000,000 pounds of tobacco against 77,000,000 pounds in the rest of the country; 38,000,000 bushels of sweet potatoes out of a total of 41,000,000 bushels. Moreover, it had at that time over 40 per cent of the total value of live stock, or \$467,498,000 out of a total for the country of \$1,100,000,000. The value of the animals slaughtered in the South in 1860 was \$84,400,000 against \$128,000,000 in all other sections.

The cash value of farms in the South as given in the Census of 1860 was \$2,300,000,000, or more than one-third of the whole country, though the South had only about one-third of the nation's population, and 4,000,000 out of the 10,900,000 were slaves. It had \$95,000,000 invested in agricultural implements, or 40 per cent of the total in the United

States, and the increase in the value of agricultural implements from 1850 to 1860 was about 60 per cent.

Moreover, the South raised all of the cotton crop of the United States, all of the rice, all of the sugar, or 302,000,000 pounds, while in other lines of diversified agriculture the South showed up equally as well as in the items quoted.

The percentage of increase in population in the South from 1850 to 1860, including the slaves, was 24 per cent; while the gain in the rest of the country, due largely to immigration of which the South received practically none, was 42 per cent. Yet from 1850 to 1860 the South increased its railroad mileage by 319 per cent, while in the rest of the country the gain was only 234 per cent. In 1860 the South had one mile of road to every 700 white inhabitants, while other sections all combined had one mile to every 1,000 inhabitants. Even if the slaves be included, the South still stood on a par with the country at large in railroad per capita mileage.

In 1850 the South had 2,235 miles of railroad, and the New England and Middle States 4,798 miles; but in 1860 the South had increased its mileage to 9,897 miles; quadrupling that of 1850, while the New England and Middle States had increased to 9,510 miles, or a gain of about only 100 per cent.

In 1850 the mileage in the rest of the country exceeded that of the South by 2,563 miles; but by 1860 the conditions were reversed and the South led by 387 miles. This activity was not limited, but included every state in the South.

Owing to the fact that cotton had absorbed so large a proportion of the South's wealth between 1812 and 1840 the industrial interests of that section were as a whole comparatively small, as they were throughout the entire country; but in 1860 the South had 24,590 industrial enterprises with an aggregate capital of \$175,100,000. And yet Dr. Tigert says of the Old South that its people were concentrated wholly upon cotton and slavery, and that the cotton planters spent their time riding around on horseback over their fields.

The management of a great cotton plantation with 500 to 1000 or more slaves who had to be clothed, fed, housed and directed, the planning of the highly diversified crops of that period and the coordination of the innumerable home industries carried on by all the plantations, required executive skill and management of the highest order. Every planter was the head of an industry, just as every manufacturer is today. Does Dr. Tigert suggest that in that day of limited communication and transportation facilities, and before large scale management had been developed to a science by years of trade association conferences and other means of comparing notes and passing around experiences, that executive management was less work than it is today? Or does he mean that the heads of great industries of today are loafers and parasites, ashamed to work? Or does he hold, with Karl Marx, that manual labor is the only productive form of effort?

Dr. Tigert is not much of an exception to many other college men who, knowing nothing whatever about the Old South, berate it, misrepresent it, malign the genius of its engineers and its scientists, and talk of the South of today as though it were something entirely new. There is no New South. There is a rebirth of the Old South, and the very spirit which enables the men of the South of today to accomplish so much is due to the initiative and energy inherited from their forebears. It has well been said that the greatest business achievement between 1800 and 1860 in all the world was the development in the South and by the South, with Southern capital and by Southern industry, of a cotton business which largely dominated the finance and politics of the world. And it might be added that the greatest missionary work of that whole century was the work of Southern men and women in evangelizing hundreds of thousands of negroes who became consecrated Christians.



Fokker F-10 Plane in Front of Pan-American Airways, Inc. Passenger Station at Miami, Fla.

Remarkable Development in the South of Aeronautical Activities

Suggestive of the Progress of that Section in Diversified Development—Tapping New Source of Wealth

By

CARROLL E. WILLIAMS

THE section from Maryland to Texas is to share largely in the development of the aeronautical industry because of its equable climate, facilitating working the year-round out of doors, the freedom of its waterways from ice, the lower cost of erecting, maintaining and heating factory buildings and the abundant supply of readily trained labor.

When, only a few years ago, the country awoke to the value of air transportation, the South took a leading part in the movement to establish airports, auxiliary landing fields, to properly mark routes and to otherwise foster the development of the industry. Now numerous Southern towns and cities are investing many millions of dollars in adequately providing for both land and sea planes. In addition, many airplane factories have been established, are under way or proposed.

The part that climate plays in the location of industries in the South is a major one. The Horace E. Dodge Boat & Plane Corp., Detroit, Mich., several months ago acquired a site at Newport News, Va., where it is building at a cost of \$1,000,000, the first unit of a plant to manufac-

ture water craft and amphibian planes and announced its removal of its executive headquarters to the Virginia city. This company after spending months in surveying towns and cities throughout the country, selected the Newport News site largely because of the fact that open water the year-round will permit of the testing of its products and delivery under power to points along the Chesapeake Bay and the Atlantic Seaboard.

Because of the countless number of lakes and the enormous mileage of inland waterways and the thousands of miles of coast, practically free from ice, the South apparently is destined to lead the country in the production and use of amphibian planes, flying boats and land planes. Thus, as the development of fields for privately owned, air mail and commercial aircraft goes forward, the cities and towns in the states from Maryland to Texas are providing splendid facilities for ships of the air that start and land on the water.

Whether it be the manufacture of airplanes, the building of airports, the

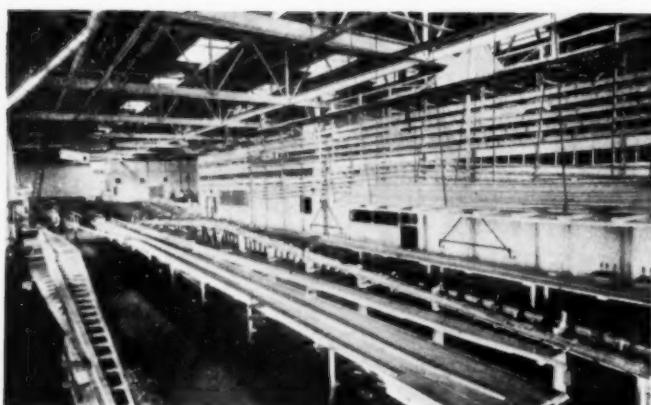
training of students, the operation of air transport service or the making of motors the South has unusual facilities to attract the aviation industry. Its factories in widely scattered sections produce steel out of which are fabricated hangars and structures of all types for air fields; native woods, manufactured into lumber in Southern plants, are widely used in hangar construction; cement, brick, crushed stone, slag and a variety of materials suitable for airfield runways are here manufactured; several plants produce wire fencing to enclose fields; plumbing supplies for administration buildings, shops and offices in general are turned out; terra cotta, concrete, cast iron and corrugated metal culvert pipe and similar products for properly draining airfields are made; sheet metal suitable for constructing airplanes is also manufactured; tires for planes are turned out in several plants; textile fabrics suitable for aircraft are also produced. In a word, the South has all the necessary requisites which should augur success and profit for the aeronautical industry.

A stimulation of the real estate business through the development of aviation

Crawler Type Tractor Pulling Plane at Memphis Municipal Airport.



A Large Variety of Road Building Machinery is Used at Airfields.



**Interior View
of Wheeling,
W. Va., Plant
of Fokker Air-
craft Corpora-
tion of America.**

Is noted, due to the springing up of new communities around airports, thereby increasing real estate values. The establishment of aviation country clubs in the South tends to boost neighborhood land prices and encourage residential and allied developments.

Because of better flying conditions in all months of the year than are afforded by other sections of the country, numerous transcontinental mail, passenger and express routes go through the South. It is conceded by many authorities that the best routes between the East and West lie over the South. Being situated close to Central and South American countries and the West Indies, it is natural that numerous lines to these neighboring countries have established operating bases in Florida, Louisiana and Texas.

The Pan-American Airways, Inc., New York, in December announced plans to triple its operations in 21 Latin-America countries, including routes totaling over 12,650 miles. In its Miami and Havana service alone six planes with a total capacity of 60 passengers are operated daily. It is estimated that under the expanded program the company's planes will fly more than 88,500 miles each week.

Florida through the activities of the State Chamber of Commerce last summer took steps to promote air transportation on a state-wide scale, the first state to undertake such a program, it is believed. Back of the movement was

the belief that in aeronautical development lies one of Florida's greatest opportunities, both to expand industrially and to create a new type of Florida visitor, the air-tourist.

It is pointed out that here climatic conditions are peculiarly favorable for flying, that the long coast line and numerous lakes facilitate the use of seaplanes and amphibian types of aircraft, and that topography permits the establishment of landing fields at minimum cost. Furthermore, with Miami serving as the jumping-off point for airlines to various West Indian and Central and South American airports, the state lies on one of the great through air routes of the future. It is anticipated that as private ownership and use of aircraft become more general, many of those who make their winter homes in Florida or normally take a winter vacation there will prefer to travel by airplane. New York business men, it is pointed out, may find it desirable to travel back and forth week ends to and from Florida estates. The Florida State Chamber of Commerce insists that it is not enough that a few of the larger and more popular cities and resorts build airports but that the state as a whole must adopt a systematic and constructive policy regarding aviation. Needs mentioned include:

Auxiliary landing fields between main terminals to insure a margin of safety

otherwise lacking; provision by towns and cities of proper guide marks and signs; enactment of favorable legislation, and development of a tourist's service for air travelers. The example set by Florida can well be emulated by every state that wants to keep up with the air transport procession.

That the South is rapidly becoming air-minded is attested by the building of emergency landing fields in scores of small towns; the construction of fine airports with all essential equipment and facilities in the large cities; the marking of towns and cities to guide flyers; the erection of guide lights; the inauguration of mail, freight and commercial air service on numerous routes; the building of airplane manufacturing plants in many cities, widely scattered in the territory from Maryland to Texas. The South is apparently determined to make the most of air transportation. It is keeping pace with developments in a commendable way. While the larger cities are spending in the aggregate large sums in building and equipping airports, many emergency landing fields are being established in smaller communities. These fields are to the air pilot what the modern service station is to the motorist. Stretched out between the great terminals they make for safety in air transport and greatly facilitate the development of air transportation by largely reducing the hazards in airline operation through forced landings.

A vigorous plea for the establishment of airports in American cities was broadcast by radio by Commodore Ernest Lee Jahncke, Assistant Secretary of the Navy, and a New Orleans business leader, immediately following a 12,000-mile inspection trip by airplane, during which he visited naval yards and stations on the American mainland, in Hawaii and in Alaska. "The airplane is with us, as much daily routine as the automobile, though not so numerous; as dependable as a railroad train. The next 10 years will see our skyways charted and filled as our highways are charted and filled today," declared Mr. Jahncke.

For that reason he urges all American cities to "rec-



**One of South's
Modern Air-
ports, That of
Menefee Air-
ways and T. A.
T. Flying Ser-
vice at New
Orleans.**

**Value of Aerial
Photographs is
Indicated by
This Cut Re-
produced from
a Photograph
by Airmap
Corp. of
America.**

Ryan Division
of the Detroit
Aircraft Corp.
at Lambert
Field near St.
Louis, Mo.

ognize this fact and build airports to meet the demands," and those cities and towns that do, he predicts, "will tap new sources of wealth so great that the optimistic are more likely to under-estimate than to over-estimate them." The lack of community foresight in cities and towns that fail to provide adequate airports now can only be compared to the lack of foresight in a community that today would build a road fit for only a few horse-drawn vehicles, Mr. Jahncke pointed out.

A very important service of the airplane is in the making of photographs. In the South extensive use has been made of airplanes in the preparation of maps to be used in planning for flood relief works on the Mississippi River and its tributaries. Southern power companies have also utilized airplanes successfully to chart routes for new transmission lines. Gas and oil companies in the building of natural gas pipe lines up to 500 miles in length have used aerial photographs to lay down the route and to assist in acquisition of necessary rights-of-way. The airplane is being similarly employed by the telephone companies, which are expending scores of millions of dollars in improvements to keep pace with the growth in industry and business in the South. An idea of the size of such mapping jobs is indicated by considering that in photographing an area of 7357 square miles on both sides of the Mississippi River in five states—Tennessee, Mississippi, Kentucky, Missouri and Arkansas—a total of 10,000 negatives was exposed, necessitating flying by aerial photographers and pilots of over 50,000 miles in four planes in a period of 90 days.

That the South will do big things in the development of air transportation is to be expected. That it has already in use numerous fine airports and is building high type passenger, freight and commercial planes, as well as specially designed craft for the Army and Navy, is not so generally known. Work under way in Baltimore is but indicative of the general expansion of this new industry in the Southern states. Not many months ago Baltimore announced plans for an airport, to involve an ultimate expenditure of about \$5,000,000, on a

costly site with deep water shipping facilities and thoroughly equipped for water and land planes. The airport is not only near to the business center of the city but in the heart of a rapidly growing industrial section. This project on the part of the municipality centred attention on the city's advantages for production of aircraft and on opportunities for flying service generally. As a result, Baltimore aeronautical projects are now under way which when completed will represent an investment of not less than \$30,000,000. The Aviation Corporation, New York, acquired a site for a \$15,000,000 plant; the Glenn L. Martin Co. is erecting a \$2,000,000 plant; the Curtiss-Caproni Corporation is completing a \$1,000,000 factory, and the Berliner-Joyce Aircraft Corporation has expended about \$500,000 for a plant and test tunnel. Moreover, several of the companies already have orders on hand that will insure operation of the new plants at capacity for some months. The Baltimore Air Terminal, Inc., a subsidiary of the Curtiss-Wright Airports Corp., New York, is constructing a \$2,000,000 airport in the path of the main airlines connecting New York, Philadelphia, Washington and the South. On a 261-acre tract six hangars, a terminal building, a flying school structure, shops, club house, and numerous auxiliary structures will be erected. The Baltimore Airport, Inc., recently acquired a 125-acre tract in the southwestern section of the city

nautical industry. Tampa recently voted \$750,000 bonds for an airport, contracts for which will be awarded early this year. Miami through the Municipal Aviation Board recently erected the first municipally owned dirigible hangar to house two Goodyear Tire & Rubber Company non-rigid airships. A similar hangar was erected by the Goodyear Company adjacent to its huge new tire and rubber reclaiming plants completed during 1929 at Gadsden, Ala. It is understood that the Goodyear-Zeppelin Co. plans to establish regular bases in the South for training men for operating dirigibles. At Akron, Ohio, it is building two huge airships for the United States Government. The Southern Sugar Co., Clewiston, Fla., purchased an airplane last year for use by company officials in inspecting its extensive Florida properties, and erected a two ship hangar.

Southern oil companies were the pioneers in the use of the airplane for quick transportation of executives.

In January, 1929, an All-American Air Meet was held at Miami, when the Pan-American Airways, Inc., opened one of the largest and most complete air stations in the country. A similar meet is under way this week.

The Southern Air Express was organized in July by prominent Alabamians to operate an airline from Washington south to principal cities as far west as

B e g i n n i n g
C o a c h
W o r k
o n a P l a n e i n
R y a n P l a n t.
C a b i n s a r e a s
C o m f o r t a b l e
E q u i p p e d a s
F i n e L i m o u-
s i n e s .



Unique Fea-
tures of Floor
Layout and
Equipment Are
Embodied in
This Plant.

for a modern air-
port.

As previously mentioned, Florida is aggressively at work in an endeavor to foster development of the aeronautical industry. Tampa recently voted \$750,000 bonds for an airport, contracts for which will be awarded early this year. Miami through the Municipal Aviation Board recently erected the first municipally owned dirigible hangar to house two Goodyear Tire & Rubber Company non-rigid airships. A similar hangar was erected by the Goodyear Company adjacent to its huge new tire and rubber reclaiming plants completed during 1929 at Gadsden, Ala. It is understood that the Goodyear-Zeppelin Co. plans to establish regular bases in the South for training men for operating dirigibles. At Akron, Ohio, it is building two huge airships for the United States Government. The Southern Sugar Co., Clewiston, Fla., purchased an airplane last year for use by company officials in inspecting its extensive Florida properties, and erected a two ship hangar.



El Paso, with Montgomery as the base of operations.

The Washington Air Terminals Corp., said to be controlled by the Federal Aviation Corp., New York, in July acquired a tract of over 100 acres at Washington, and announced plans for a six-way landing and departing field. It also acquired a 1000-acre airport near Alexandria, Va.

Shreveport, La., was selected as the permanent home of the Third Attack Wing of the Air Corps by the War Department, and upwards of \$8,000,000 will be expended for improvements. Bonds were voted by the city to purchase land for the government field. At the same time \$300,000 in bonds was voted for the municipal airport.

One of the first fly-it-yourself systems established in the country was that of the Saunders interests at the Fairfax Airport of Kansas City, Mo. It is planned to establish similar systems in numerous other Southern towns and cities. At St. Louis, the St. Louis Air Terminal is establishing at a cost of about \$1,500,000 a major aviation center on a 500-acre tract to incorporate a wide variety of facilities, including

One of America's First Airplane Show Rooms at Tulsa Airport.

restaurants, cafeteria, postoffice, drug store, valet and barber shops, garage and filling station, stores, ticket office, baggage room, etc. Plans are being completed for expending the balance of a \$2,000,000 issue at St. Louis under the direction of the Municipal Airport Commission. Bonds sold in April for these improvements commanded a big premium. In April, 1929, the Bird Wing Commercial Aircraft Co., St. Joseph, Mo., acquired

additional land for its plant and announced plans late in the year for producing its newly developed Imperial Model No. 10. Receipt of orders were announced in September by the Ryan Aircraft Corp., Anglim, Mo., for 30 planes to be delivered to foreign countries.

Memphis, Tenn., opened a \$500,000 airport in June. Improvements included a

This gas which is non-inflammable is used in lighter-than-air craft. Natural gas from which helium has been extracted is permitted to pass back into the pipe lines after passing through the extraction plant. The Helium Company, Louisville, Ky., recently produced a successful portable plant for repurifying helium after being used in dirigibles.

The Houston, Tex., branch of the Curtiss-Wright Flying Service started work late in 1929 on a \$2,000,000 air-



Located in a 35-Plane Hangar of the Spartan Aircraft Company.

port. The first unit provides for a system of runways in addition to the installation of roads, water, gas, telephone and telegraph facilities, hangars, machine shops, offices, waiting rooms, rest rooms and space for a ground school. Work began in December, 1929, on additional facilities at Dallas for the Dallas Airport Utilities Commission. The Constructing Quartermaster at Randolph Flying Field near Schertz, Tex., awarded contracts in October, 1929, for six barrack buildings, an air corps warehouse, and a Quartermaster warehouse, as part of the first \$3,500,000 unit of a \$14,000,000 flying school planned by the Army.

The Southern Air Transport, Inc., Fort Worth, is building a 20-story office structure to cost several million dollars, to be devoted primarily to aviation companies. In October the Amarillo Airport Corporation completed initial developments in a 700-acre field.

The National Advisory Committee for Aeronautics will construct a seaplane tunnel and wind tunnel building and auxiliary facilities at a cost of several million dollars at Langley Field, Va.



Sister Ship of the "Spirit of St. Louis," Commercial Operators Use This Type Ship Extensively.

Over \$331,000,000 in Southern Public Improvement Bonds Sold Last Year

THE par value of \$38 issues of public improvement bonds marketed last year in the 16 Southern states, as reported weekly in the financial news columns of the MANUFACTURERS RECORD, amounted to \$331,467,500. In 1928 the par value of 1066 issues marketed was \$350,697,000, and in 1927 Southern public improvement bonds sold had a total par value of \$482,164,000, representing 1445 issues.

Bonds for road, paving and bridge bonds sold last year hold first place in value, the total for 1929 being \$143,476,000, representing 209 issues. Bonds sold last year for miscellaneous public improvements hold second place, the total for the year being \$118,076,500, representing 287 separate issues. This classification includes bond issues sold for a wide variety of construction projects that cannot be classified in the other three divisions of the tables herewith. Bond issues sold for school work totaled 208, the par value amounting to \$35,293,500. Bond issues sold for drainage, dredging, irrigation projects, sewer and water works number 134, with the par value totaling \$34,621,500.

North Carolina heads the list of states considering the value of securities sold

in 1929, the total being 125 issues of a par value of \$54,534,000. Tennessee is second with sales aggregating \$47,673,000, representing 94 issues. Arkansas is third with the sale of 36 issues having a par value of \$34,291,000. Texas is a close fourth with sales amounting to \$34,219,500, the par value of 120 issues.

In the sale of bonds for road and paving projects Arkansas lead the South with 12 issues having a par value of \$28,963,500. Tennessee is a close second with sales aggregating \$28,658,000, representing 24 issues. Louisiana stands next with the sale of 10 issues with a total par value of \$17,242,500.

Missouri is first in the sale of bonds for miscellaneous purposes, 72 issues with a par value of \$43,192,000 having been marketed for that purpose in 1929. Tennessee is second with the sale of 45 issues with an aggregate par value of \$16,309,000. Mississippi is next, having marketed last year 20 issues with a par value totaling \$8,196,500.

In the sale of school bonds Texas is first, the total being \$7,180,500 for 40 issues. Missouri is second with \$5,596,500 as a par value of 15 issues. North Carolina stands next with the sale of 21 issues totaling \$5,030,000.

With the recent improvement in the

bond market, indications are that many issues for a wide variety of public improvements will be sold early in the year. With funds available from recently marketed issues it is apparent that public work will be undertaken in volume during the early months of 1930. New Orleans sold \$836,800 paving bonds in December. Oklahoma City recently voted \$2,150,000 for the erection of new schools. Bonds of Maverick County Irrigation District No. 1, Eagle Pass, Texas, totaling \$6,600,000, have been sold to finance a big irrigation and hydro-electric project and contracts for portions of the work have been awarded. Austin, Texas, last month sold \$1,000,000 bonds for sewers, streets, parks and abattoir. Laurel, Miss., voted a \$500,000 bond issue for an extensive improvement program. Alexandria, Va., recently marketed \$735,000 public improvement bonds. Hidalgo County Water Improvement District, Edinburg, Texas, will sell this month \$1,000,000 bonds, part of an authorized issue of \$3,000,000. Amarillo, Texas, will hold an election soon on a \$500,000 school bond issue. In Tulsa, Okla., it is proposed to hold an election on \$5,695,000 bonds. Arkansas will sell \$18,000,000 highway bonds shortly. Birmingham, Ala., proposes an election soon on \$4,000,-

Summary of Public Improvement Bond Sales in the South

SOUTHERN BOND SALES IN 1929, BY STATES.

	Roads	Schools	Sewers	Miscellaneous	Total Values
Alabama	9	\$8,845,000	7	\$1,825,000	45 \$18,809,000
Arkansas	12	28,963,500	10	1,084,500	36 34,291,000
Florida	12	2,646,000	7	395,000	42 3,049,000
Georgia	2	115,000	12	934,500	22 1,854,500
Kentucky	4	1,057,000	1	250,000	24 4,539,500
Louisiana	10	17,242,500	14	4,500,500	48 28,441,000
Maryland	16	10,894,000	9	2,845,000	41 24,749,000
Mississippi	19	2,184,000	21	964,000	65 11,769,500
Missouri	6	10,175,000	15	5,596,500	40 29,154,500
North Carolina	17	4,054,000	21	5,030,000	125 54,534,000
Oklahoma	2	1,275,000	19	977,000	53 4,793,000
South Carolina	26	6,147,000	12	907,000	52 8,933,000
Tennessee	24	28,658,000	14	1,419,000	94 47,673,000
Texas	41	7,674,000	40	7,180,500	120 34,219,500
Virginia	4	1,596,000	3	600,000	21 5,872,000
West Virginia	5	10,950,000	3	785,000	10 12,185,000
Totals	209	\$143,476,000	208	\$35,293,500	838 \$331,467,500

SOUTHERN BOND SALES IN 1929, BY MONTHS.

	Roads	Schools	Sewers	Miscellaneous	Total Values
January	17	\$5,643,000	16	\$1,249,500	77 \$24,645,500
February	13	1,772,000	15	4,391,000	55 12,689,000
March	20	19,353,000	14	2,054,000	66 32,280,000
April	14	29,665,500	17	3,086,500	60 45,453,500
May	17	4,598,500	36	6,394,000	97 23,309,500
June	21	41,085,000	24	2,458,500	79 50,099,500
July	12	4,092,000	20	2,629,000	66 21,447,000
August	21	10,108,000	16	5,141,000	83 28,142,500
September	20	12,197,000	23	1,510,000	69 17,040,000
October	24	3,487,000	8	1,300,000	77 32,440,000
November	24	9,325,000	15	4,543,000	72 27,771,000
December	6	2,150,000	4	537,000	37 16,150,000
Totals	209	\$143,476,000	208	\$35,293,500	838 \$331,467,500
1928	331	\$138,114,500	266	\$37,114,500	1066 \$350,697,000
1927	488	182,337,000	309	55,217,500	1445 482,164,000
1926	376	118,552,100	298	61,282,300	1164 394,581,600
1925	428	153,438,003	337	57,060,000	1342 392,834,200
1924	475	138,979,083	353	43,376,886	1348 365,290,745
1923	371	78,286,486	339	40,186,110	1229 275,989,374

000 bonds for drainage improvements and a municipal airport.

Kentucky will sell \$11,667,000 bonds to finance the building of state owned toll bridges. Jacksonville, Fla., is considering an election on \$750,000 bonds for an air-

field. At Shreveport, La., \$500,000 water bonds were recently voted. Lubbock County, Texas, voted \$991,000 road bonds. Hattiesburg, Miss., will sell \$1,000,000 bonds to finance sewer and water works. Nueces County, Texas, voted \$2,-

500,000 highway bonds last month. Plans are being considered in Macon, Ga., for a \$2,000,000 improvement bond election. Cameron County, Texas, will sell \$1,750,000 road bonds. El Paso, Texas, will vote soon on a \$570,000 school bond issue.

\$1,250,000,000 Awards in Building and Construction Industry Last Year in South

Construction and building contracts awarded last year in the 16 Southern states had a total valuation of \$779,981,000, according to a compilation of reports published in the DAILY BULLETIN and in the construction columns of the MANUFACTURERS RECORD. In 1928 the valuation of awards totaled \$806,674,000, and during the preceding year amounted to \$774,885,500. Only those projects are included in the totals for which actual figures were available as to cost. No attempt is made to estimate the contract price of scores of miscellaneous projects and structures on which no cost figures are to be secured, nor on requests for bids when cost figures are not supplied. Thousands of residential structures, private garages, repairs, alterations and additions costing under \$10,000 each, which in the aggregate would involve the expenditure of several hundred million dollars, are not reported in the construction columns because of space limitations. It is conservatively estimated, therefore, that the additional items would bring

the contract total for 1929 to about \$1,250,000,000.

Preliminary announcements covering contemplated construction projects in 1929 called for an expenditure of more than \$1,325,000,000. Many of the projects included in this total and announced during the early months of last year have since been let to contract, but a large number are still in the plan stage, and will not be contracted for until some time this year. In 1928 similar announcements had a valuation of \$1,629,000,000.

In April, 1929, contracts awarded had a valuation exceeding \$107,000,000, the highest monthly total on record. The total assumes greater significance when the awards in May amounting to more than \$105,000,000 are considered. The month of May thus not only holds second place for last year, but represents the second highest monthly total up to this time. August, normally a month of great construction activity, is third with over \$89,000,000 in awards.

From the standpoint of the amount of

money involved, contracts awarded for road, paving and bridge construction hold first place in 1929, the total being \$239,300,000, compared with \$254,695,000, representing awards for similar work in 1928 and with \$241,597,000, the total valuation of awards for road and bridge work in 1927. Awards for miscellaneous projects—including garages, filling stations, piers, warehouses, railway construction, grain elevators, electric power developments of all types and similar work not covered specifically in the other classifications—and totaling \$214,740,000, come next. In the preceding year, awards for this class of construction amounted to \$163,928,000. Contracts let for erection of hotels and apartment houses had a valuation in 1929 exceeding \$63,844,000, placing this classification third.

Southern Industrial Conference

Arrangements are under way for the fifth annual Industrial Development Conference to be held by the Southern Division of the American Mining Congress at Little Rock, Ark., in March. Kentucky, North Carolina and Florida have already taken steps to assure the attendance of large delegations from those states. Judge J. H. Hand of Yellville, Ark., member of the Board of Governors of the Southern Division for Arkansas, together with Dr. Henry M. Payne, Secretary of the Division, are in charge of arrangements for the meeting which promises to be of much interest and value to all of the Southern states.

	Comparative Record of Construction South.			
	1926	1927	1928	1929
January	\$76,340,500	\$80,460,500	\$52,593,000	\$67,132,500
February	73,216,000	43,378,500	50,058,500	61,556,500
March	90,225,500	81,482,000	75,164,000	53,707,500
April	100,186,500	59,025,000	72,648,500	107,097,500
May	76,930,500	67,463,500	82,129,500	105,506,500
June	72,177,500	68,113,000	84,030,500	60,285,500
July	98,060,500	74,576,000	73,320,500	64,263,500
August	67,084,000	71,243,500	86,538,000	89,675,500
September	81,923,500	92,038,500	49,032,500	46,053,500
October	58,663,500	46,257,500	47,913,500	53,711,000
November	41,876,000	50,604,500	75,383,000	34,691,500
December	54,839,500	60,243,000	57,862,500	36,300,000
Total	\$891,543,500	\$774,885,500	\$806,674,000	\$779,981,000
				\$1,325,812,500

Summary by Classification of Contracts Awarded and to Be Awarded.

	1926 Contracts awarded	1927 Contracts awarded	1928 Contracts awarded	Contracts awarded 1929	Contracts to be awarded 1929
				1926	1927
Apartment houses and hotels	\$130,691,500	\$91,632,500	\$99,109,000	\$63,844,500	\$104,048,000
Association and fraternal	8,744,500	5,856,000	10,441,000	5,108,000	10,565,000
Bank and office buildings	104,050,500	52,888,500	53,834,000	44,950,500	59,489,500
Church buildings	32,924,500	31,304,000	24,492,500	18,680,500	31,355,500
City and county projects	25,174,000	29,637,000	11,847,500	13,243,000	23,842,000
Dwellings, cost \$10,000 and over	66,495,500	54,950,500	57,973,500	64,352,000	42,797,500
Miscellaneous	144,456,500	145,643,000	163,928,500	214,740,000	398,205,000
Road, paving and bridges	248,379,500	241,597,500	254,695,000	239,300,500	425,438,000
School buildings	73,470,500	58,707,000	69,384,000	53,334,500	103,403,500
Sewers, drainage and water works	29,662,500	34,979,500	31,968,000	31,002,000	98,628,500
Store buildings	27,494,000	27,690,000	29,001,000	31,425,500	28,040,000
Total	\$891,543,500	\$774,885,500	\$806,674,000	\$779,981,000	\$1,325,812,500

\$1,000,000 Pan American Building

Washington, D. C.—An appropriation of \$200,000 has been made by the Carnegie Corporation of New York, toward the erection of a \$1,000,000 office building here for the Pan American Union, and it is understood that an additional sum of \$300,000 has been set aside for the building, provided construction is begun before October 30. Plans for the structure will be drawn immediately, it is said, so that construction may be undertaken as soon as possible. Paul P. Cret and Albert Kelsey, Philadelphia, Pa., are the architects.

Industrial and Building Expansion South

Broad Development of This Section Indicated by Publication of More Than 68,700 Construction Items in 1929—Encouraging Outlook for This Year.

Industrial, building and general development activities in the 16 Southern states in 1929 are represented by a total of 68,796 items published in the DAILY BULLETIN and in the construction columns of the MANUFACTURERS RECORD, compared with 75,662 items published in 1928.

The brief reports included 32,974 industrial development notices. Building items last year totaled 19,760. In 1929 there were 5172 announcements concerning the organization of new financial enterprises and the voting and sale of public improvement bonds. The 1929 reports include 9717 items on road and street projects; bridge, culvert and

viaduct items published last year number 3748. A total of 13,465 notices covering these two closely allied classes of work were thus reported. Next in numerical importance are items on the construction of dwellings, which class of construction, considering the number of items, is second only to road and street work. Last year 5513 individual reports covering dwelling construction were printed; during the preceding year 6295 items covering projects of a like nature were published. Individual dwelling projects involving the expenditure of less than \$10,000 are not published; thus, the figures in the summary herewith indicate that many costly residences are being erected

in the South. In addition big sums are being expended in the aggregate for renovating and modernizing residential structures, erecting additions and building private garages.

School building construction is represented by 3518 items; hotels and apartment houses by 1994; stores by 2045, and church building projects by 1407 items. Miscellaneous enterprises in wide variety in all parts of the South are represented by 3489 items. Land development projects are represented by 1699 items, and announcements regarding gas and oil development enterprises number 1707, covering gas and oil pipe lines, new refineries and improvements to established plants, large distributing and storage plants and allied projects. In the want section 9194 items were published in 1929.

\$2,599,000 Low Bid on Postoffice

Low bid for the demolition of the present Baltimore postoffice and the construction of a new building has been submitted by the N. P. Severin Company, Chicago, Ill., at \$2,599,000, according to advices from the office of the Acting Supervising Architect of the Treasury Department. An alternate bid of \$2,935,000 for facing the building with marble was made by the same contractors. The Otis Elevator Company, New York, submitted through its Washington office the low bid of \$178,451 for installing elevators.

Great Increase in Foreign Trade Through Hampton Roads

Hampton Roads imports have quadrupled and exports are seven times as great in value as they were 15 years ago, prior to the World War, according to figures in the Hampton Roads Annual, printed for distribution by the Hampton Roads Maritime Exchange. Imports have increased from \$7,178,000 in 1914 to \$28,604,605 for the fiscal year ending June 20, 1929, and exports have risen from \$25,166,000 to \$177,978,537.

New Power Unit Operating

Bryson City, N. C.—A new unit of the hydro-electric plant here has been put in operation by the Smoky Mountain Power Company, lessees of the property. The unit consists of a turbine and switchboard which doubles the capacity of the plant, bringing the total capacity to 1500 horsepower.

INDUSTRIAL DEVELOPMENTS	Oct.	Nov.	Dec.	Jan. to Dec. (Inc.)
Airplane Plants, Stations, etc.....	119	87	77	1,029
Bridges, Culverts, Viaducts.....	342	250	206	3,748
Canning Plants	18	20	20	182
Clayworking Plants	8	8	4	91
Coal Mines and Coke Ovens.....	14	13	7	93
Concrete and Cement Plants.....	3	1	2	70
Cotton Compresses and Gins.....	36	8	8	337
Cottonseed Oil	2	3	1	40
Drainage, Dredging & Irrigation.....	57	31	30	371
Electric Light and Power.....	102	92	94	1,042
Fertilizer Plants	7	2	0	50
Flour, Feed and Meal Mills.....	12	9	4	126
Foundry and Machine Plants.....	42	18	23	242
Gas and Oil Developments.....	175	162	126	1,707
Ice and Cold Storage.....	25	28	27	342
Iron and Steel Plants.....	8	4	5	87
Land Developments	127	127	106	1,699
Lumber Enterprises	36	34	21	463
Metal Working Plants	4	2	3	38
Mining	29	16	10	217
Miscellaneous Construction	114	89	50	885
Miscellaneous Enterprises	382	268	258	3,489
Motor Bus Lines and Terminals.....	48	35	24	371
Motor Cars, Garages, Filling Stations.....	225	112	128	1,831
Railway and Street Railways.....	37	55	63	471
Railway Shops and Terminals.....	20	13	11	142
Road and Street Construction.....	922	589	459	9,717
Sewer Construction	157	96	94	1,418
Shipbuilding Plants	0	0	0	1
Telephone Systems	40	45	39	453
Textile Mills	52	45	38	736
Water Works	123	105	85	1,288
Woodworking Plants	19	22	12	198
	3,305	2,389	2,035	32,974

BUILDING	Oct.	Nov.	Dec.	Jan. to Dec. (Inc.)
Association and Fraternal	40	22	19	356
Bank and Office	71	43	52	900
Churches	125	89	103	1,407
City and County	118	68	72	1,121
Dwellings	468	330	239	5,513
Government and State	52	56	53	508
Hospitals, Sanitariums, etc.	94	66	61	831
Hotels	154	114	89	1,994
Miscellaneous	84	57	58	772
Railway Stations, Sheds, etc.	9	11	5	95
Schools	300	212	189	3,518
Stores	176	103	97	2,045
Theatres	21	14	13	280
Warehouses	41	30	26	420
	1,753	1,215	1,076	19,760

FINANCIAL	Oct.	Nov.	Dec.	Jan. to Dec. (Inc.)
Bond Issues Proposed	308	208	202	3,320
Bond Issues Sold	60	57	38	778
Building and Loan Associations	8	6	5	122
New Financial Corporations	97	60	59	952
	412	331	304	5,172
WANT SECTION	782	550	451	9,194
TOTAL	6,322	4,485	3,866	67,100
FIRE DAMAGE	140	111	126	1,696
	6,462	4,506	3,902	68,796

South Produces Over 67 Per Cent of Country's Cotton Goods

North Carolina Now Leading Cotton Manufacturing State, Forcing Massachusetts Into Second Place, With South Carolina Close Third

By HOWARD L. CLARK.

WITH the recent release of the final census returns for the cotton manufacturing industry of the United States, covering the year 1927, it is found that the South produced 6,037,010,000 square yards of woven goods over 12 inches wide, as compared with 7,741,568,000 square yards produced by all the mills in the United States in 1925. The total production of woven goods over 12 inches wide for the United States in 1927 amounted to 8,980,414,000 square yards. Between 1925 and 1927 the South increased its cotton goods output by 1,195,000,000 square yards, or nearly 25 per cent. The increase in the rest of the country during the same period was only 43,840,000 square yards, or 1.5 per cent.

In 1927 the South produced 67 per cent of the total quantity of cotton goods manufactured in the United States. Corresponding figures, as of the census of 1925, showed a proportion of 62.5 per cent.

This increase in proportion of output of Southern mills, compared with the country as a whole, was expected since, based on the consumption of cotton in the South in 1928, it was found that Southern cotton mills used 70 per cent of the American cotton consumed in all the mills of the United States. In the accompanying classification of cotton goods manufactured in the South some items run as high as 98 per cent of the specified class of cotton goods produced in the United States. Southern cotton mills manufactured 84 per cent of the sheeting; 82 per cent of the print cloth; 74 per cent of the shirtings; 71 per cent of the ginghams; 87 per cent of the denims; 94 per cent of the drills; 83 per cent of the towels and toweling; 98 per cent of the osnaburgs; 92 per cent of the cotton table damask; 75 per cent of the tickings; 72 per cent of the cottonades and cotton worsteds; 83 per cent of the yarns sold by mills and 72 per cent of the yarns manufactured for their own consumption. This not only indicates the magnitude of cotton manufacturing in the South, but the long list clearly shows the wide diversity of the goods turned out by Southern cotton mills.

The total production value of the cotton manufactures group of the United

COTTON GOODS, BY CLASS, QUANTITY AND VALUE, FOR THE UNITED STATES AND THE SOUTH, 1927.

Class	United States	South*	Per Cent in South
Woven goods (over 12 inches wide), sq. yds.	8,980,414,774	6,037,010,040	67
Value	\$1,183,760,651	\$666,331,228	56
Sheetings, sq. yds.	1,857,476,174	1,557,195,980	84
Value	\$167,888,002	\$121,890,654	72
Tire fabrics, sq. yds.	225,931,642	121,146,926	53
Value	\$80,974,199	\$44,513,833	53
Tire duck, sq. yds.	35,474,346	22,909,757	64
Value	\$11,343,197	\$7,548,751	66
Cord, sq. yds.	179,740,778	92,067,547	51
Value	\$66,974,970	\$35,483,345	53
All other, sq. yds.	10,716,518	6,169,622	57
Value	\$2,656,032	\$1,481,737	55
Print cloth, sq. yds.	1,583,861,282	1,300,293,077	82
Value	\$109,826,442	\$89,166,271	81
Twills and sateens, sq. yds.	413,996,565	170,574,064	41
Value	\$50,336,045	\$20,556,385	40
Shirtings, sq. yds.	378,530,166	282,695,502	74
Value	\$55,437,170	\$35,019,983	63
Ginghams, sq. yds.	290,618,626	206,859,507	71
Value	\$37,128,856	\$23,330,306	62
Napped fabrics, sq. yds.	400,097,211	268,232,790	67
Value	\$55,386,356	\$32,668,441	58
Fabrics (other than shirtings), containing rayon, sq. yds.	163,824,938	40,299,665	24
Value in cotton	\$41,644,800	\$8,280,775	19
Fabrics entirely or in chief value of rayon, sq. yds.	117,052,733	35,517,081	30
Value	\$36,300,172	\$9,589,201	26
Denims, sq. yds.	254,117,955	222,617,676	87
Value	\$49,791,843	\$43,462,326	87
Lawns, nainsooks, cambries and similar muslin, sq. yds.	272,453,611	†35,325,951	13
Value	\$32,100,888	†\$3,430,322	10
Reps, poplins, and broadcloths, sq. yds.	264,724,549	†107,416,713	40
Value	\$37,655,931	†\$12,903,663	34
Drills, sq. yds.	347,775,666	†329,251,727	94
Value	\$84,068,249	†\$88,270,422	94
Plushegs, velvets, velveteens, etc., sq. yds.	42,689,229	4,618,427	10
Value	\$45,710,213	\$2,033,678	04
Towels, toweling, washcloths, sq. yds.	169,997,031	141,454,594	83
Value	\$42,611,371	\$32,763,647	76
Osnaburgs, sq. yds.	164,975,794	163,167,374	98
Value	\$17,899,540	\$17,667,844	98
Bedspreads and quilts, sq. yds.	71,282,515	46,627,359	65
Value	\$18,949,735	\$10,308,940	54
Tobacco, cheese, butter, bunting, and bandage cloth, sq. yds.	660,424,343	†222,849,857	33
Value	\$19,298,187	†\$5,775,575	29
Cotton table damask, sq. yds.	33,523,412	30,828,457	92
Value	\$6,751,405	\$6,096,625	90
Tickings, sq. yds.	59,283,350	44,768,437	75
Value	\$10,358,553	\$6,811,818	65
Cottonades and cotton worsteds, sq. yds.	32,696,616	23,773,085	72
Value	\$8,149,885	\$4,968,271	61
Other woven goods (over 12 inches wide), sq. yds.	1,835,505,709	904,345,648	49
Value	\$238,190,994	\$102,597,323	48
Yarns for sale, pounds.	664,334,562	552,445,185	83
Value	\$253,663,750	\$201,566,673	79
Yarns for own consumption, pounds.	2,327,011,088	1,683,750,614	72
Cotton waste produced for sale, pounds.	484,416,320	307,940,580	63
Value	\$26,808,651	\$15,506,444	57
Other products, including amounts received for contract work, value.	\$103,167,560	\$17,222,103	16

*Production cotton growing states. †Incomplete; total for South not shown without disclosing operation of individual establishments.

States, as of the final census returns for 1927, was \$1,659,518,000. The South's proportion of this production showed a valuation of about \$900,000,000 for its cotton goods output and Southern mills expended over \$527,000,000 for materials, fuel and power. It will be noted that returns for several of the Southern states

are not complete, but the foregoing figures representing the South's proportion are close enough to indicate the magnitude of the South's cotton manufacturing activities.

North Carolina, with a cotton goods output valued at \$311,155,000 in 1927, led all the textile-producing states in

the value of production. North Carolina has taken the lead over all the states in the number of cotton-manufacturing establishments, people employed, cost of purchased supplies, as well as in the value of its production. Massachusetts,

for so long the leading textile state, dropped to second place and South Carolina was a good third, following closely Massachusetts. The individual census items, by states, are listed in the accompanying table.

COTTON MANUFACTURES, 1927.						
	Number of estab- lish- ments	Total persons engaged	Primary Horse- power	Cost of materials, fuel and power	Value of products manufactured	Value added by manufacture
Alabama	68	25,391	103,825	\$49,850,441	\$80,833,617	\$30,983,176
Arkansas	3	325	1,160	576,443	949,657	373,214
Georgia*	139	57,764	223,025	106,882,283	180,509,344	73,627,061
Kentucky*	4	1,123	35,286	2,363,227	3,834,451	1,471,224
Maryland	8	2,375	11,725	4,391,842	8,063,570	3,671,728
Mississippi	14	2,822	10,235	3,682,231	6,563,051	2,880,820
North Carolina	383	98,482	453,230	184,930,320	311,155,673	126,225,353
South Carolina†	163	76,472	338,329	135,085,027	231,272,599	96,187,572
Tennessee	21	7,412	33,393	13,589,259	21,956,617	8,367,358
Texas	26	5,700	19,929	11,675,491	21,125,992	9,450,501
Virginia	11	8,552	57,638	14,177,760	27,295,233	13,117,473
Total	840	286,418	1,287,775	\$527,204,324	\$893,559,804	\$366,355,480
Connecticut	59	16,795	72,754	\$32,665,935	\$64,112,866	\$31,446,931
Illinois†	15	1,513	4,296	3,880,383	6,882,929	3,002,546
Indiana†	3	715	2,515	1,183,905	2,209,728	1,025,823
Maine	17	10,410	93,726	17,350,564	34,414,143	17,063,579
Massachusetts	210	96,088	540,360	150,813,954	294,890,690	144,076,736
Michigan	9	349	1,459	866,606	1,448,020	581,414
New Hampshire†	22	15,508	96,919	27,187,700	58,709,428	31,521,728
New Jersey‡	40	6,501	36,512	10,202,375	21,720,494	11,518,119
New York	63	10,226	55,180	18,929,487	38,316,253	19,386,766
Ohio†	11	832	4,128	3,322,127	6,115,758	2,793,631
Pennsylvania	158	20,623	36,993	52,251,924	103,750,098	51,498,174
Rhode Island	126	32,652	140,038	55,335,456	109,578,061	54,242,603
Vermont	4	1,031	6,629	1,361,130	3,145,790	1,784,660
Other States§	33	5,027	20,051	12,650,430	20,664,674	8,014,244
Total	770	218,270	1,111,569	\$388,001,976	\$765,958,932	\$377,956,956
United States	1,610	504,688	2,399,344	\$915,206,300	\$1,659,518,736	\$744,312,436

*Excludes data for two establishments to avoid disclosing their operations; included in figures for "Other States." †Excludes data for 1 establishment to avoid disclosing its operations; included in figures for "Other States." ‡Excludes data for 3 establishments to avoid disclosing their operations; included in figures for "Other States." §Includes California, 6 establishments; Delaware, 1; Louisiana, 3; Missouri, 4; Oklahoma, 2; Wisconsin, 5, and 12 establishments in States indexed in foregoing footnotes.

\$1,400,000 EXPANSION PROGRAM

Southwestern Public Service Company
Plans Improvements in Texas
Panhandle

Amarillo, Tex.—Plans are being made by the Southwestern Public Service Company, a subsidiary of the American Commonwealth Power Corporation, New York, for carrying out an expansion and development program in the Texas Panhandle in 1930, to involve an expenditure of \$1,400,000. The large power plant now under way at Amarillo will be increased from 10,000 to 25,000-kilowatt capacity and an industrial transmission line to serve present and contemplated industries north and west of the city will be built. The office building here is being remodeled and enlarged and office structures at Claude and at Groom will probably be improved. Plans also provide for additions and improvements to meet power requirements at Pampa, which will likely result in the installation of auxiliary engine equipment or interconnection with other existing companies, or both, while a substation at First and Tyler streets, this city, will be converted for full automatic operation. Additional transmission lines are planned throughout the Panhandle.

English Cotton Trade Review

Depressing Conditions During 1929—Unemployment Remains a Problem

By FREDERICK W. TATTERSALL, Manchester, England.

A DEPRESSING state of affairs has prevailed in the English cotton trade during the past 12 months. The amount of business offering in cotton piece goods has not been sufficient to enable producers to work the full amount of machinery and consequently only isolated firms have been enabled to run a full 48-hour week. This has naturally resulted in a large amount of unemployment and under-employment amongst the operatives.

As in previous years the depression has been most acute in the section devoted to producing yarn made from American cotton and the manufacture of cloths described as "bread and butter" fabrics. One of the features of the trade has been the ground lost in the fine spinning and manufacturing end of the industry, as up to the beginning of the year this section worked practically full time. Since then, however, a change for the worse has taken place in the mills spinning yarn made from Egyptian cotton. The reduction in demand was such that the Egyptian section at the

beginning of the year organized short time working for three months, and one-third of the spindles were stopped. An attempt was made to organize short time working in the American spinning section but it was impossible to obtain the 80 per cent majority in favour and no action was taken by the Master Spinners' Federation.

Reorganization Attempts

The past year has not been without its events of importance regarding attempts being made to reorganize the industry. A feature of importance was the formation of the Lancashire Cotton Corporation, Ltd. This company supervises between 70 and 80 spinning mills comprising 6,000,000 spindles and a large number of looms. The scheme of the corporation provided for mills to be taken over at a valuation calculated on an agreed basis, the shareholders and creditors of the mills receiving the corporation securities. An important part of the plan was that it secured the support of the Bank of England. Numerous

legal difficulties have been encountered by the corporation when negotiations have been undertaken regarding the taking over of mills, but it is satisfactory to record that considerable progress has been made. Mills are still being valued and when the combine is firmly established it will be the largest spinning and manufacturing group in the world.

Much interest was taken in the formation of the Eastern Textile Association, a co-operative effort promoted to develop the consignment of cotton piece goods to markets abroad under the joint auspices of spinners, manufacturers, merchants, bleachers, dyers and shippers.

The Joint Committee of Cotton Trade Organizations has continued its work carrying out an important research programme regarding the marketing of fabrics in the overseas outlets.

Experimenting With "Stretch Out" System

An interesting experiment has been carried out by a number of Burnley manufacturers in co-operation with the

operatives. In May it was arranged that a number of operatives should take charge of eight looms instead of the usual four. Unskilled labour was provided to do such work as cleaning and oiling, etc. This experiment is being tried for 12 months and it is expected that a report on the year's working will be published in 1930. This is one of the efforts being made to discover whether or not production costs can be reduced.

As promised in the general election the Government has appointed a Committee of Inquiry into the industry. The committee commenced its sittings in November, and the report and recommendations are expected early in 1930.

Depression in Piece Goods and Spinning Section

It has been a depressing period for manufacturers of piece goods. Export demand has failed to develop and foreign trade has again been on a comparatively small scale. Compared with pre-war years Lancashire has lost fully one-third of her foreign trade. Production has been between 75 and 80 per cent of full time.

Spinners have continued to meet with depressing conditions. It is probable that more machinery has been running than in the previous 12 months, but the financial losses have not been any less. Owing to supply being in excess of demand weak selling has been in evidence, and it is only in isolated instances that mills have been able to declare a dividend. With regard to the American spinning section production has fluctuated between 75 and 80 per cent of full capacity. Throughout the whole of the year 60 spinning mills in membership with the Master Spinners' Federation were closed down. The Bolton Master Spinners' Federation in February decided to curtail production by 33 1/3 per cent for three months. No definite relief has been obtained and very few concerns have been able to sell at remunerative rates.

Labor Difficulties

The event of the year was the successful attempt of the employers to reduce the wages of the operatives. In June the Master Spinners decided to claim a reduction of 25 per cent off the piece price list rates which was equal to a weekly wage reduction of 2/6d in the £. Following the usual joint conferences in Manchester a deadlock was reached and a complete stoppage of work in the spinning and manufacturing sections commenced on July 29. Intervention of the Ministry of Labour resulted in further conferences between the operatives and the employers and ultimately it was agreed to submit the question to arbitration. In the meantime work was resumed in the mills on August 19 after

a three weeks' stoppage. A Board of Arbitration was appointed and made an award reducing the wages of the operatives by 12 1/2 per cent off piece price list rates, equal to an actual reduction of 1/3d in the £. This represented a cut in earnings of 6 1/4 per cent. The new rates of pay came into operation in the week ended September 14. Much dissatisfaction was expressed by the operatives, who before the Board was appointed had agreed to abide by any findings. In October, however, rather a serious development took place when the Operative Weavers' Amalgamation, representing the workers in the manufacturing section, made a claim for an advance in wages equal to 2/6d in the £, and also that operatives should be compensated to the extent of 7/6d per loom for each loom stopped. The application was turned down.

Prospects

The industry continues to suffer from over-production. Lancashire has sufficient machinery to supply a trade far in excess of the turnover at the present time. It is disappointing to state that there are no signs of the demand in

yarn and cloth broadening to such an extent that producers would be enabled to run machinery full time and thereby obtain better prices. The trade outlook in China is not too cheerful. The outlook regarding trade in India is no more promising than a year ago. Japanese and other manufacturers are undercutting Lancashire's prices with the result that trade does not make any headway.

One encouraging feature is the attempts being made by Lancashire to reorganize the industry by forming combines in order to reduce working costs. Reorganization is taking place and it is in this direction that the majority of traders believe that the salvation of the industry lies. In other quarters the opinion is growing that the only way to recover lost trade is for the mills to adopt the double shift working system. In this respect the question of the attitude of the operatives immediately arises. They are strongly opposed to any double shift working, but the fact remains that the selling prices of Lancashire cloths in the outlets will have to be reduced if we are to maintain even our present trade.

Operative Conditions in a North Carolina Mill

A recent issue of the Charlotte Observer carried attractive pictures of mill operatives in different parts of North Carolina. Two large views of operatives in Burlington showed an especially interesting type. In reply to a letter commenting on the appearance of these people and inquiring about the age of those employed, H. B. Skinner, secretary of the Chamber of Commerce of Burlington, sends to the MANUFACTURERS RECORD an enlightening statement on conditions in the mills in that community, facts that should set at rest many of the efforts made by socialistic agitators to misrepresent and malign the mills of the South.—Editor MANUFACTURERS RECORD.

The Burlington Chamber of Commerce, Burlington, N. C.

Editor Manufacturers Record:

It is indeed a pleasure to give you the facts concerning the ages of the workers in the local hosiery and other mills in this community. We appreciate what is said about the types and their appearance and we can assure you that they are all like that here. The photos mentioned as being published in the special edition of the Charlotte Observer were taken without any warning or possible chance of having employees made presentable.

Pictures were taken just as employees left the mill for the noon hour after a full morning of work and without knowledge that the pictures were to be taken.

In very few instances are there children in the mills of even 16 years of age; these are generally from families where work is necessary, the average age being about 24 years. Ages run from 19 to 45 in most plants.

We note the reference made to the appearance of the girls, and we can tell

you right now that we know of no mill in this city in which the provision made for the workers is not such that we would personally be willing to step into them as a hand; in fact, they are much better than many of the plants we personally worked in in the North during our school days.

The employees of the mills here come nearly entirely from the community and the surrounding country territory. Automobiles and good roads have done so much for this state that now the employee simply comes from the mill, gets into his car, is home for meals and back at the plant all within his noon or supper hour. Many of the employees live outside of the city on small farms where they have their own cows and chickens and garden and where they make use of these assets.

Living in the open, eating good food, such ideal living conditions can make for nothing else than bright and intelligent people. Many of the girls in these hosiery mills make regular wages of \$50 a week and mercantile establishments

In this city carry lines of merchandise that will surprise anyone, as to the quality and styles demanded.

As the secretary of the Manufacturers' Council of the county, it is my personal interest that carries me into these mills at unusual hours, under abnormal conditions and to see what is actually there and without the so-called supervision of the foremen or women. We have opportunity to talk to the employees when there is no restraint and when they have a complaint to make. We do find things that need correction and we have yet to make a recommendation to the mill owners and have it disregarded. Handling much of the surplus labor supply that is looking for a position we are in contact with those who have troubles and who are in need of assistance and we can assure you that the employes themselves appreciate the conditions and things that are done for them.

Recently there has been question as to the hours of employment in this state; the state law gives maximum of 60 hours a week and an 11-hour day. It was a pleasure to confer with inspectors and to go with them over plants that we visited without warning and in nearly every mill we found, posted on the bulletin board, the rules for the work week stated: "The week of labor in this mill shall be maximum of 55 hours and no employee shall work for more than 11 hours any one day."

All mills carrying out night work, in connection with the manufacture of hosiery, make provision for the serving of hot meals to their workers at midnight and these meals are paid for by the company, the meals being served largely by restaurants and lunch rooms operated by owners and managers who have no connection with the mills.

It is true that in some of the textile mills there is room for improvement, some of them are still rather looking toward their own pockets than to the community and the effect on their employes; these we still have to clear up, but we are far from being in the condition that is generally pictured as being so representative of the South.

H. B. SKINNER, Secretary.

\$2,000,000 NORFOLK PLANT EXPANSION

Ford Motor Company to Increase Capacity of Assembly Plant

Norfolk, Va.—Improvements completed, under way and planned for the Norfolk assembly plant of the Ford Motor Company are expected to involve an expenditure of approximately \$2,000,000. This is a part of the company's \$30,000,000 program for 1930, it is understood, which will be devoted to plant expansion in various sections of the United States, \$20,000,000 to be expended for new buildings and \$10,000,000 for plant equipment. The 1929 production of the Norfolk plant was 60,000 cars, exceeding that of any other year by 15,000. The maximum capacity of the plant, which is now 90,000 cars, will be increased to 120,000, it is said, and the number of employes increased from 1800 to 2400.

Organized Labor Plans Membership Drive in South

Union Labor has determined if possible to capture the South and disrupt the friendly relations which have existed throughout that section as compared with the constantly disturbed labor conditions elsewhere in the country.

The following account, reproduced from the Charlotte News, shows what the organized labor interests are undertaking to do. One of the men mentioned as locating in Birmingham to direct the campaign in that vicinity is of the United Mine Workers, which has been one of the most disorganizing organizations in the country, and which has halted at no means to break down independent mining operations in the South. But for the coal mined by independent or non-union miners in the South, this country would at times have seen its railroad trains stopped, its factories shut down, and business generally disrupted.

As to the statement that the Governor of Alabama declared he will welcome the establishment of the organization in that state, and has agreed not to call out troops in case of a disturbance, Governor Bibb Graves of Alabama wires as follows: "I have never had a thought nor made an expression that would justify quotation."—Editor MANUFACTURERS RECORD.

Begin Drive For Labor Over South

Leaders Go to Birmingham to Open Federation Headquarters for Organization Campaign.

Friendly But Firm

"Gospel of Unionism" to Be Carried Throughout Entire Section.

Leaders of organized labor today began to carry out plans for what they called a friendly but determined campaign for "the gospel of unionism."

These plans, made by the American Federation of Labor under the leadership of its president, William Green, at a meeting here, became effective with the closing of the conference, with the selection of Birmingham, Ala., as headquarters for the Southern organization crusade.

Paul J. Smith, of the United Mine Workers, chairman of the committee named to direct the campaign, planned to leave here today for Birmingham to open headquarters. Other members of the committee are W. C. Birthright, vice-president of the Barbers International Union, and Francis J. Gorman, vice-president of the United Textile Union.

Mr. Gorman and the other members of the directing committee for the unionizing campaign conference

this morning with organizers and union members who volunteered to help in organizing in the forthcoming campaign.

Go To Florida

Following the final executive sessions of the conference last evening, Mr. Green, E. F. McGrady, member of the legislative committee of the organization, and other members of the executive sessions left for St. Petersburg, Fla., where they will confer with local leaders of that State and complete the plans of organization for the South.

Decision to establish the center of activities in Birmingham came as a surprise to the local contingent and to officers of the North Carolina Federation, who had anticipated that either Charlotte or Asheville would be chosen. Chief factor in selection of the Alabama city was the promise of the governor of that State, relayed to the session by James L. Hurst, president of the Alabama Federation. He declared that the governor would welcome the organization and had agreed not to call out State troops in case of a disturbance.

The actual plan of campaign was announced in executive session late yesterday afternoon. Mr. Green named the central committee to supervise the organization efforts.

Speakers at the executive session, held in the ballroom of Hotel Charlotte, as the open sessions of the morning had been, were Thomas F. MacMahon, president of the United Textile Workers Union, George L. Goode, of Savannah, Ga., representative of President William Green for Southern work; W. M. Cohn, president of the International Association of Fire Fighters; Miss Florence C. Hanson, secretary of the Federation of Teachers; Miss Matilda Lindsay, of the Women's Trade Union League, and Mrs. F. M. Campbell, of the garment workers' organizations. Addresses were also made by presidents of the State Federations having representatives at the meeting.

The Enormous Oil Development of Venezuela

Caracas, Venezuela, January 1.

Editor Manufacturers Record:

I have just finished the statistics on the petroleum production of Venezuela for the year 1929. Their importance cannot be overestimated at this period, because of the influence of this production on the world's petroleum markets; its relation to our Caribbean policy, in view of the fact that "oil is strategy" from a military standpoint; and, due to the tendency of substituting the Diesel and semi-Diesel engine for steam power in the merchant marine as well as navy, it must add materially to the expansion and efficiency of our foreign commerce. Moreover, the data presented is of capital importance to those in the Congress of the United States interested in tariff revision on petroleum and its products. The present results in the oil fields of this country and Colombia were discounted and foreshadowed in my report to be found in Volume VIII of The Mineral Industry (1900) just 30 years ago. A full and very detailed account of the cost of production, size of the fields and all other data has been furnished by me to the state of Texas, Attorney General's office, in which the representations of the oil lobby to Congress are fully discussed.

Venezuelan oil production for 1929 is 126,900,000 barrels, with a total value on board ships of \$125,550,000. Total cost of production, \$24,311,000. Gross profits, \$101,239,000.

The Venezuelan production is approximately double the total output of the United States in 1899 and not far from the world's production for the same period.

I predict that the Venezuelan petroleum output will reach 400,000,000 barrels within five years, as the world's greatest oil pools lie on the base and in the great plains east of the Colombian and Venezuelan Andes in the valley of the Orinoco River, and work has been started to develop these regions.

CHARLES F. Z. CARACRINTI, C.E.E.M.

Acquires Life Insurance Company

Nashville, Tenn.—The Associated Life Companies, Inc., through President Carey G. Arnett, recently announced the purchase of substantial holdings in the Shenandoah Life Insurance Company, Roanoke, Va., which operates in Virginia, District of Columbia, Maryland, Pennsylvania, New Jersey, Massachusetts, Ohio, North Carolina, South Carolina, Georgia, Florida, Alabama, Tennessee, Kentucky and West Virginia. Beginning business in 1919, the Shenandoah organization has approximately \$85,000,000 insurance in force, with capital, surplus and reserves of more than \$4,600,000. Robert H. Angell is the president. No change in the location or personnel of the company is contemplated. The Associated Life Companies, Inc., was organized several months ago and controls or owns a sub-

stantial capital stock interest in companies having more than \$275,000,000 insurance in force. It plans to acquire from time to time substantial interests in other life insurance companies.

\$2,000,000 MINING PROJECT

Ozark Reduction Company Plans Lead and Zinc Development in Arkansas

Jasper, Ark.—The Ozark Reduction Company of Jasper, recently organized with Gordon N. Peay, Little Rock, president, and F. E. Hatch, treasurer, plans soon to launch a \$2,000,000 lead and zinc development, which will include the construction of a \$550,000 hydro-electric dam 12 miles from Jasper on Buffalo River. The dam will be 105 feet high to create a narrow lake or deep channel 15 miles long on which ore-carrying barges will be operated. Application for authority to build the dam will be filed soon, it is said, and the construction of the dam will be started in the summer. The proposed hydro-electric plant is estimated to produce 7500 horsepower, a part of which would be used to operate a large mineral reduction plant and the remainder sold to distributing power companies. Mr. Hatch, who is a mining engineer, is said to have invented a patented electrolytic mineral separating process, by which low grade and refractory ores are treated and refined at the mine, thus saving transportation costs on raw ore. Mr. Peay and associates own large tracts in Newton County containing lead, zinc and other ores. Capital stock of the company consists of 2000 shares of no par value.

LOUISIANA UTILITIES TO EXPEND \$15,250,000

\$6,000,000 Power Plant and Other Projects Included in 1930 Program

New Orleans, La.—Approximately \$15,250,000 will be expended in 1930 by public utilities companies in Louisiana for construction, improvements and the expansion of existing facilities, according to recent estimates. About \$8,000,000 of the total will be expended in New Orleans and another \$6,000,000 for the construction of a steam-electric power plant at Baton Rouge. This plant will have an initial capacity of 45,000 kilowatts and will supply power to the big refining plant of the Standard Oil Company of Louisiana. Surplus power from the plant will be diverted to the surrounding industrial area. The Louisiana Power and Light Company will hook up one of the New Orleans' power houses with its 110,000-volt system and several other projects will be carried out by the company in an expansion program. Nearly \$5,000,000 will be expended by the New Orleans Public Service for the expansion and improvement of its electric, gas and transportation facilities.

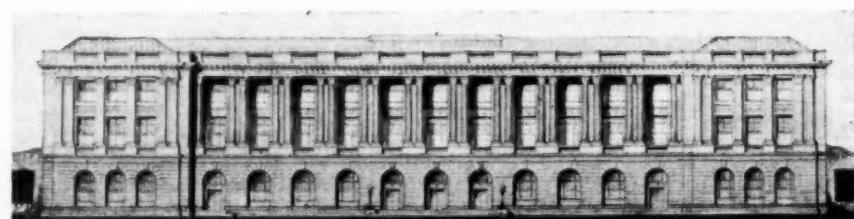
\$2,150,000 School Bonds Sold

Oklahoma City, Okla.—Bonds in the amount of \$2,150,000, of the Oklahoma City school district, have been sold by the Board of Education, J. G. Stearley, clerk, to the Continental National Company, Chicago, and the American-First Trust Company, Oklahoma City, at par, accrued interest and \$200 premium. The purchase price covers \$1,302,000 of the bonds as 5s. and \$848,000, as 4½s.

\$1,500,000 to Enlarge Building

Bids will be received until January 30 at the office of Jas. A. Wetmore, Acting Supervising Architect of the Treasury Department, Washington, D. C., to remodel the front of the custom house, court house and postoffice building at Memphis, Tenn., and to build a two-wing addition. Work is expected to begin soon after the award of contract and is estimated to cost \$1,500,000. Elevator contract will be awarded separately. Contractors estimating include: The Jones

Engineering & Construction Co., Elmhurst, Ill.; DeVault & Deitrick, Inc., Canton, Ohio; National Construction Co., Atlanta, Ga.; English Construction Co. and Smythe & Co., Washington, D. C.; N. P. Severin Co. and the Ellington-Miller Co., Chicago, Ill.; Algernon Blair and A. C. Samford, Montgomery, Ala.; Murch Bros. Construction Co., St. Louis, Mo.; W. D. Lovell, Minneapolis, Minn.; Consolidated Contractors, H. A. McGuire & Co. and the S. & W. Construction Co., all of Memphis, and Charles Weitz' Sons, Des Moines, Iowa.



As Memphis Federal Building Will Appear When Wings are Completed

Prosperity Comes to West Texas Along the Petroleum Trail

By SAM ASHBURN*.

It's a new country now out in West Texas, for the oil derricks have changed a country of alternating prosperity and distress into a land of the bulging pocketbook and sunny smile. Few areas have been overlooked by the oil companies, and men in white hats and fancy boots today talk as readily of royalties and leases as they do of steer yearlings and mutton lambs.

Half a dozen oil fields have been opened up since May 23, 1923, when Santa Rita Number One University, the discovery well, became a producer. Explorations continued and when George B. McCamey drilled the discovery well in the McCamey Field, pipe lines to tide water were built. McCamey built a home near Fort Worth and a boom oil town was named after him. Over the dark escarpment and around the mountain crept the field; along the old Comanche trail, where Indians in warpaint used to ride into Mexico to pillage the towns and down toward the Horsehead crossing, which never saw a settlement and yet has a graveyard.

Up to Crane County traveled the field, chased by the little operator and the big companies alike. Several miles away, in the deep sand, a lone wildcat was drilling, its crew living in a tent and seeing no one except an occasional scout. Then one morning it blew in with a haze of poison gas and the Crane County fields were born.

E. A. Landreth, who in June, 1928, sold to the Texas Company, developed his famous "vacancy strip," four hundred feet wide and three and three-quarter miles long. This strip was originally leased from the state by Cowden and Anderson. Landreth built a tank and drilled a well, then built another tank and another well, until he had 16 wells and 43 tanks. Since June, 1927, this strip has produced approximately seven million barrels, nearly four million of which have come from the Number Eleven well.

To this country, then, new wealth came. Droughts were forgotten and fine homes were built at the end of telephone lines. A new town, the first in Crane County, was established and grew quickly to a population of one thousand. New fences were built around the ranches,

water wells were drilled and tanks erected. Even the rain seemed to fall more frequently. So Crane County now has its own government and hard-surfaced roads.

Across the Bankhead highway now moves the trail of West Texas petroleum, up into Winkler County, with its voting population of 23 and its utter absence of telephones, electric lights or radio. There a wildcat well came tearing out of the ground, painting the sun, moon and stars with 29-gravity crude, and prosperity came running. Men who had gone into Winkler County to build ranches and who for years had fought droughts and low prices became men of means over-night. County Judge Malley, S. S. Scarborough and T. G. Hendricks, who had made some success in the cattle business, saw adventurers from 48 states rush to the new towns built on their lands. Now there are good roads, good schools and a new courthouse in place of the little wooden shack that at times was unapproachable through the heavy sand.

A United States Geological Survey of the early eighties pronounced the Trans-Pecos region unfit for man and beast. On October 26, 1926, the sensational Yates Field was born. Ira Yates, the owner, sold \$180,000 worth of leases in the next 24 hours and since then has been defendant in thirty suits and has had one thousand applications to marry. He has bought ranches all over the state and is enjoying life at the ripe old age of seventy.

One of the biggest and eventually the most disappointing plays of Pecos County was when the Rowan and Tong Number One McDonald, about twenty miles northwest of the Yates Pool, blew in and for several days flowed wild at the rate of from twelve hundred to three thousand barrels daily. Other wells were immediately drilled in the neighborhood and brought up sulphur water. Then, after its sensational start, the first well stopped flowing and upon being drilled deeper brought in some very smelly and decidedly useless sulphur water. The Rowan and Tong area is now considered a failure.

South of Girvin, a seventeen-year-old ranch town with a population of fifty, the road leads into a basin surrounded by rock-crowned mesas. There, on lands of the University of Texas, the Taylor-Link discovery was made on the 100,000 acre Baker and White ranch, where

there are four thousand big steers and 25,000 head of sheep. Within a month the town of Bakersfield was built from nothing to a population of 1200. Most of the buildings had come from other boom towns, moved there on trucks.

This field is located in an area where the spectacular cactus grows, where roads are long and one can travel for fifty miles without seeing a house. Now company camps have risen, with hot water, gas, electric and gas stoves, the buildings covered with the typical gray paint that sulphur gas, the badge of West Texas, cannot blacken.

J. A. McDonald, who kept the hotel at Girvin for several years, came into independence and many who had bought leases in this area by mail found their purchases tremendously increased in value. But the main production in West Texas is in the hands of the big companies and it is they who have built the pipe lines to tide water. Here The Texas Company's line runs through the ranches and over the hills for hundreds of miles.

Pecos County contains two other fields, the Pecos Valley and Taylor-Link. The former is located on land where irrigation was once vainly attempted. Hal Cockran, who drilled the first well in this area, got oil on his first try. Another outfit has counted 35 dry holes and is still going strong.

In Ward County, in the town of Grandfalls, lives Colonel Boogher, who came down from St. Louis many years ago. Up to a short time ago he had little besides a fine library and a genteel air. Now he has an oil well.

Many ranches on which oil has never been found are leasing for large sums. In the first days of exploration in this territory, it was easy to assemble a drilling block of 25,000 acres, but some of the more recent discoveries have been drilled on 160-acre tracts.

About 150 scouts travel the West Texas territory daily, watching the development at various wells. The percentage of finds in the wildcats has been so heavy that not a hole in the ground is being overlooked.

Handle Plant at Capacity

Marion, Va.—The Marion Handle Mills, Inc., J. K. Killinger, president, is operating its plant at capacity, turning out about 125-dozen handles daily. Shipments are being made in carload lots to many foreign countries.

* Extracts from an article which Mr. Ashburn wrote for the December issue of the Texaco Star, house organ of the Texas Company, refiners of petroleum products, including industrial lubricants, railroad and marine lubricants, farm lubricants, road asphalt and asphalt roofing.

Big Utilities Groups Combine

Stockholders of the Standard Gas and Electric Company and the Standard Power & Light Corporation, both of Chicago, have approved increases in the capital stocks of the companies and various corporate changes involved in a proposed closer union of the two organizations. Plans call for the transfer of assets of the Standard Power & Light Corporation to the Standard Gas & Electric Company, while the Standard Power & Light Corporation will have a majority of the common stock of the Standard Gas & Electric Company, which will be the sole voting stock. Under these arrangements, it is said that H. M. Byllesby & Company, Chicago, and the United States Electric Power Corporation, organized several months ago as a holding company, will control the two companies and the Standard Gas & Electric Company properties will continue under Byllesby management. John J. O'Brien will continue as president of the Standard Gas & Electric Company and is a director of both companies. Louis H. Seagrave, chairman of the board of the United States Electric Power Corporation, has been elected chairman of the board of the Standard Power & Light Corporation, and Victor Emanuel, president of the former has been elected president also of the latter. Southern and Southwestern properties controlled by the Standard Gas & Electric Company, include the Louisville Gas & Electric Co. and the Oklahoma Gas & Electric Co.

New Orleans Expendng \$3,500,000 to Enlarge Water Facilities

New Orleans, La.—Upon the completion of operations now being carried out by the New Orleans Sewerage and Water Board for the expansion of facilities at the Carrollton water purification plant on the river bank, the capacity of the plant will have been increased from 40,000,000 gallons daily to 125,000,000 gallons, or approximately 180 per cent. For more than a year forces of the board have been at work on the improvements, for which bonds in the amount of \$3,500,000 were provided. The program of construction and equipment will probably be completed by the end of the current year. Increased pumping facilities are being installed in a new station on the river, and the capacity of the purification plant is being increased by additional grit reservoirs, mixing reservoirs, coagulating reservoirs and filters. There will be 18 additional filters, four of which have been completed and are now in operation. The new reservoirs and filter units are of reinforced concrete, open to the air, and surrounding new structures,

which conform architecturally with other structures of the plant. New machinery for the pumping plant, consists largely of boilers and generating units to provide power, not only for the waterworks, but also for drainage pumping stations scattered throughout the city.

Airplane Manufacturers Reorganize

Oklahoma City, Okla.—Coffman Monoplanes, Inc., have reorganized as the Ranger Aircraft Corporation, with John L. McClelland, former head of the McClelland-Gentry Motor Company, as general manager. Directors of the company have outlined an expansion program for 1930 which will quadruple production, and necessitate the employment of additional forces. A new line of air cooled monoplanes will be added, to be powered by a 160-horsepower Warner motor, and for which Federal approval is expected by March 1. The manufacture of the OX-5 water cooled plane will be continued, the output to be increased from one plane monthly to four planes weekly. D. J. Marshall, Wichita, Kans., is president of the company.

\$575,000 Building Project

Oklahoma City, Okla.—Construction has been started by G. A. Nichols, Inc., on 19 residences here to involve an expenditure of approximately \$575,000. Ten additional homes will be erected in Nichols Hills, of English, Colonial and Spanish architecture and of brick, stone and stucco construction, at a cost of about \$320,000. They will be from plans by Philip Resnyk, New York, and will constitute the second unit of a building program for Nichols Hills to involve an expenditure of \$1,250,000. The company has also begun the erection of nine residences in Lincoln Terrace to cost about \$250,000, which will practically complete the building program in this development.

South Georgia Growing Winter Resort Region

Because of its temperate climate, Georgia is rapidly gaining fame and popularity as a winter resort. Albany, Augusta, Brunswick and Thomasville annually have large colonies of wealthy winter residents, states the Georgia Power Company, Atlanta.

A Striking Reason Why American Winter Vegetable Producers Need Protection

Though probably not in any way intended as a tariff argument, but merely as setting forth actual facts in regard to importations of foreign-raised winter vegetables, the United States Department of Agriculture in one of its recent statements gave some remarkable figures in regard to the increase in importations of winter vegetables from Mexico, Cuba, Bermuda and the Bahamas. These facts show why the vegetable growers of the South are rightly making a strong effort to secure a protective tariff. In the course of the statement from the Department of Agriculture it is said:

"Increasing competition between America and foreign producers of winter vegetables to satisfy the greatly enlarged demands of American consumers in recent years is reported by the Bureau of Agricultural Economics, U. S. Department of Agriculture. Among these winter vegetables are tomatoes, green peas, peppers, potatoes and celery."

"Imports of winter vegetables from the Mexican West Coast, Cuba, Bermuda and the Bahamas amounted to approximately 161,000,000 pounds in the 1928-29 season November 1 to June 30, as compared with 125,000,000 pounds in 1925-26. Tomatoes, says the bureau, have been the most important item in the winter vegetable imports, an average of more than 110,000,000 pounds of this vegetable having been imported per year in the last three years. Most of the toma-

toes come from the Mexican West Coast, and compete with the American product mainly in the central and western markets, although large quantities are shipped also to eastern markets.

"Imports of green peas have increased in the last three seasons, practically all shipments coming from the Mexican West Coast and aggregating more than 19,000,000 pounds last season. Mexico and Cuba ship practically all of the green peppers imported into the United States in the winter months. Most of the celery comes from Bermuda in March, April, May and June, and shipments from there in 1928-29 aggregated 4,500,000 pounds, the yearly average for the three years 1926-27, 1927-28 and 1928-29 being 3,800,000 pounds. An increasing import trade in early potatoes from Cuba and Bermuda is reported, the imports in the last three seasons having averaged 10,843,000 pounds, or about 181,000 bushels per year."

"Among the American areas which are in competition with foreign sources of winter vegetables are the east coast of Florida, the lower Rio Grande Valley in Texas, and the Imperial Valley in California, which have become important in production of winter vegetables as a result of improvement of methods of transportation and refrigeration and increase in consumer demand in recent years. The shipping seasons of the Mexican West Coast, Cuba, Bermuda and Bahama coincide with those of the American areas, but movement in volume from the foreign sources begins somewhat earlier than from the domestic areas."

Contract for \$850,000 Courthouse

General contract to erect the new \$850,000 Hinds County courthouse at Jackson, Miss., has been awarded to the Angle-Blackford Co., Greensboro, N. C., on a bid of \$442,724. Other contracts were awarded to the El Dorado Plumbing & Heating Co., El Dorado, Ark., at \$62,797, for plumbing and heating; to the Bagby Electric Elevator Co., Birmingham, Ala., at \$9248, for electric wiring, and to the Westinghouse Electric

**New Courthouse for Jackson, Miss.**

Elevator Co., Dallas, Tex., at \$29,241, for elevators. The building will be 195 by 89 feet, of reinforced concrete and structural steel, with brick walls and Indiana limestone trim. The main section will be five stories and the two wings four stories, the fourth floor of the former to be equipped for women's and juvenile jail quarters, and the fifth floor for men's jail quarters and quarters for the jailer. Claude H. Lindsley, Jackson, is the architect; Gardner & Howe, Memphis, Tenn., structural engineers, and G. A. Peerman, Birmingham, Ala., mechanical engineer. The Pauly Jail Building Company, St. Louis, Mo., has contract for jail equipment.

Contract for Big Hangar

St. Petersburg, Fla.—Contract has been awarded by the Aeronautical & Industrial Holding Corporation of Florida to the Arch Construction Co., New Orleans, La., for building an airplane hangar on Weedon's Island, near this city. The structure will be 100 by 120 feet, the steel framework to be fabricated at the site by welding. An administration building and other structures will be erected in connection with the project, to be known as the Grand Central Airport.

For Farm Electrification

Baton Rouge, La.—An organization has been effected here to further farm electrification in Louisiana. It is sponsored by the College of Agriculture and the Extension Department of the Louisiana State University, in co-operation with farm organizations of the state, power companies and electrical manufacturers. The purpose of the organization is to ascertain, by demonstration on farms in various sections of the state,

the cost and practicability of electric service in different farm operations as compared with present methods.

Proof of the Pudding Is in the Eating

By FRANK C. GILREATH, Atlanta.

Georgia peaches, with the freshness and flavor of ripened fruit just taken from the trees under the newest process of freezing, were sent as a holiday gift to President Hoover. Cartons of the luscious product, packed in "dry ice," were shipped to the President with the compliments of the Georgia Bureau of Markets and the agricultural department of the Atlanta, Birmingham and Coast Railroad, which with various other agencies have cooperated in an experiment, said to have proved highly successful. The peaches were packed away last summer and this is the proven test of their keeping qualities.

Officials of the market bureau and of the railroad agricultural department said that several thousand pounds of the peaches, as gifts from the State of Georgia, were taken from cold storage plants in Atlanta and sent to hotels both in Atlanta and New York City with a view of introducing the peaches in their newest form of year-round freshness. The fruit, featured in menus of hotels here and elsewhere, as well as on dining cars of outgoing trains, is said to have attracted unusual attention and has served to advertise the product in many sections.

W. R. Tucker, agricultural agent of the Atlanta, Birmingham and Coast Railroad, with headquarters in Atlanta, is credited with having conducted the first successful experiment in providing an increased market. His work, now being continued on a larger scale, is recognized as a great boon to Georgia peach growers.

The peaches, frozen, put in paper containers and placed in cold storage, it is said do not offer competition to canned goods because they are fresh and bear the flavor of fruit picked from the trees. The flavor is superior, according to medical and refrigeration authorities in Atlanta, who have sampled the product, to that of the peach shipped during the summer months. The latter is picked comparatively green and wrapped in paper to ripen en route to destination.

Announcement has been made that a million-dollar plant, backed by Northern capital and slated to open the new market for Georgia peaches, will be located in the state before spring. The plant will buy direct from the producer, freeze the fruit under the new process and sell it during the colder months of the year when canned peaches alone are available.

\$600,000 Miami Building

A new building erected by the Biscayne Boulevard Company, Miami, Fla., at a cost of about \$600,000, for Sears, Roebuck and Co., Chicago, was recently opened by the latter as a retail store. The structure fronts 128 feet on Biscayne Boulevard, with a depth of 152 feet, and has a 62-foot tower above the roof of the main section. In the rear a wide alley leads to a loading platform and to a large parking lot on 14th street, while other parking space is provided on Biscayne Boulevard. Nimmons, Carr & Wright were the architects and Martin C. Schwab, engineer, both of Chicago. The Harrison Construction Co., Miami,

**Sears-Roebuck Building, Miami**

handled general contract. Sub-contracts were awarded as follows:

Electrical installation—Harrington Electric Co., Miami

Millwork—Gate City Sash & Door Co., Ft. Lauderdale, Fla.

Structural steel, steel stairs and railing—Decatur Iron & Steel Co., Decatur, Ala.

Steel rolling doors—Kinnear Manufacturing Co., Columbus, Ohio, through Auford Agency, Miami

Miscellaneous doors, elevator enclosures and steel toilet partitions—Metal Products Co., Miami

Miscellaneous iron and steel and flag pole—G. M. Dykes Iron Works, Miami

Fire protection system—Automatic Sprinkler Company of America, New York

Barrett roofing—Baker Roofing Co., Miami

Plumbing—L. T. Gill Plumbing Co., Miami

Plastering, stucco and stone work—U. S.

Plastering Co., Miami

Glass, glazing and copper store fronts—French Mirror Plate Glass Co., Miami

Painting—H. I. Passett, Inc., Miami

Terrazzo floors—F. P. Briggle Co., Miami

Windows—Campbell Metal Window Corp., Baltimore, Md., through Brinson Building Material Co., Miami

Caulking—Chamberlin Metal Weatherstrip Co., Detroit, Mich.

Finishing wood floors—Walton Flooring Co., Miami

Finish hardware—Shaw's, Inc., Miami.

5,000,000 Ton Granite Deposit

Miss Eunita Manning Ruff, Columbia, S. C., reports that F. H. H. Calhoun, consulting geologist, has surveyed near Jenkinsville a granite outcrop on the south bank of Holmes Creek, about a mile off the main Columbia-Monticello highway, 25 miles from Columbia. It is stated that there is at least 5,000,000 tons of rock which is hard, durable granite suitable for crushed rock, granite blocks and rubble. The deposit is undeveloped.

LETTERS FROM OUR READERS

Give Farmers Equal Opportunity With Other Industries in Tariff Protection

N. C. Williamson,
Cotton Planter.

Millikin, La.

Editor Manufacturers Record:

It seems to me that the cotton growing South now has the greatest chance it has ever had to get what President Hoover said he was determined agriculture should have—"equal opportunity with other industries." If the Senators from the cotton states would take a stand for a constructive policy of protection for an industry upon which the very existence of our people depends, a tariff bill could be passed and the South enriched by many millions of dollars.

An adequate tariff on jute and jute products, vegetable oils and cotton would, to a large extent, solve the farm problem for the South. All we want is an even break with those in other vocations. We are not asking alms nor seeking special favors. Give the farmers equal opportunity with other industries and he will take care of himself fairly well.

What we need now more than anything else is some real display of manhood in the Senate, men with the courage to stand up and be honest with themselves and with their people, men who will join hands with the independent, free thinking Republican Senators from the West, who say their party is trying to betray the farmer, to whom both parties pledged their sacred word of honor to help through fair and honest legislation, giving him an equal chance and equal opportunity with other industries.

I am a Democrat, but I am also a cotton grower and I know the farmer who grows cotton under present conditions is doomed to failure sooner or later. I know, too, that I cannot expect to have fixed in the tariff bill schedules that will protect the cotton industry and then fight every other tariff proposed. The other fellow would then be in the position I am in now, and that is not a desirable nor a profitable position to be in.

I get out of patience with some of our Southern statesmen when they talk about the tariff and the Democracy for which they profess to stand. I take it that a Senator from Louisiana is supposed to represent the interests of Louisiana particularly, without prejudice to the other states of the Union of course, just as the Rhode Island Senator sees to it that the thread manufacturer's business is taken care of in the tariff schedules and the Massachusetts Senator looks after the shoe manufacturer's interests. I will say here that both Senators from Louisiana are in favor of the tariff schedules under discussion and I am only illustrating my point.

Cotton is the great money crop of the South. When the cotton growers prosper, all lines of business in the cotton belt are prosperous. The standard of living on the cotton farm is not what the men and women who toil long tedious hours through hot summer days are

entitled to enjoy. The children on the cotton farms are not getting the school advantages they deserve. This is not because these people are shiftless and extravagant. They have not that equal opportunity with other industries. They do not receive a fair price for their product. They are competing with the cheap labor of India and other foreign countries in selling their cotton.

Cargoes of jute and jute products come into this country to be sold in place of low-grade cotton. Vegetable oils are brought in to take the place of our cotton seed oils, and now, in addition to the 300,000 bales of Egyptian cotton imported each year, India is selling cotton in our domestic markets and all free of duty.

I earnestly appeal to all Southern Senators to join hands with Borah and others and give the farmers the thing both parties promised them: equal opportunity with other industries.

N. C. WILLIAMSON.

War Debts and Repudiated American Debts As Seen by Others

Boston, Mass.

Editor Manufacturers Record:

An editorial in the Toronto Globe contained the following significant words:

"There are close observers who do not believe that Germany will continue to pay war reparations one moment longer than she is physically forced to do so. There are some who believe that the whole debt structure, allied or otherwise, will collapse in the event of such repudiation. To the extent that the United States corrects debt repudiation from within her own borders the world-wide debt collapse is made the more unlikely."

To those looking for cause and effect in outward phenomena only, the juxtaposition of European war-debts to this country and the repudiated debts of States of the Union may seem far-fetched, but "magnitudes," dubbed by Emerson as superstitions of sense, are unknown to the moral law, which operates unseen.

Most Americans know nothing of the repudiated State debts; some who know of them shelve them mentally with one or other of the generalizations or slogans which salved the conscience a generation ago; others reason that even though some of the repudiations were unquestionably bad, they "got away with it," and anyhow it is too old a story. Many, on the other hand, are sincerely desirous of seeing at least some of the bonds redeemed in the near future.

These debts are multiple, ranging from Mississippi in 1842 to Arkansas' final act in 1884. A considerable number made by reconstruction governments appointed by the North after the Civil War are laid by the thinking South at the door of the Federal Government, which latter remains coy. Included unfortunately in this silent play of "battledore and shuttlecock" are debts which have no earthly connection with such recriminations.

Virginia in default for thirty years honorably settled her state indebtedness in 1892; had she persisted in refusing satisfaction to her creditors, her delinquency would be cloaked today in common parlance by the term "carpet-bag debts," although no part of her debt, except for the compounding of interest, was contracted in the reconstruction period.

Similarly, Mississippi's debt and the Territorial debt of Florida, amounting respectively to \$7,000,000 and \$3,900,000, exclusive of interest, incurred long before the Civil War, are usually lumped today with bonds issued by northern-appointed administrations after 1868. The present British holdings of Mississippi bonds, at least \$4,000,000, include no large blocks accumulated by speculators, but have been largely in the same families for generations. To quote from the 55th Annual Report of the Council of Foreign Bondholders in London. "These bonds while unpaid will carry on to generations yet unborn the memory of a grave injustice, wrought for illicit financial advantage, in defiance of one part, and under the protection of another part, of the Constitution of what is now the richest country in the world."

Continental Europeans are aware to some extent of the above facts. One of the signatories to the Bankers' Memorial to the Legislature of Mississippi in February, 1871, asking it to "redeem the faith of Mississippi pledged upon these bonds and free her forever from the bane of repudiation," was the house of Hope & Co. of Amsterdam, where many of the obligations were purchased at the time of issue. These repudiations, as intimated by the Toronto Globe, do not tend to strengthen the moral determination of the debtor nations to go through to the bitter end.

ERNEST F. BARRY.

What About the Gold in the Carolinas?

Shelby, N. C.

Editor Manufacturers Record:

Referring to your cover page editorial on the inadequate gold supply of the country:

Prior to 1849 the bulk of the gold supply for the United States was mined in the Carolinas, and the bulk of this was mined in a radius of 75 miles from Shelby. Why have all the mines been abandoned? They were worked then by man power and were paying. With power machinery and equipment of today it seems to me they could be worked successfully and profitably.

Before the Civil War there was a vein of gold uncovered near here. A pan of dirt from this vein would clean up a goose quill full of gold; that was the mode of measure at that time. It seems to me that such showings would be profitable. The war came on and the vein was never worked.

The hills and hollows of this section of the Carolinas are underlain with gold awaiting some one to develop and secure it.

STOUGH HOPPER.

IRON, STEEL AND METAL MARKET

Steel Trade Conditions Only Fairly Favorable

Pittsburgh, January 13—[Special.]—Many reports of steel trade conditions and prospects are exaggerations, presenting matters in a more favorable light than is warranted. The object may be to help business by trying to create favorable "sentiment" but the chances are that sentiment will be more harmed by subsequent disappointment than it is now being helped.

There has been only a small increase in steel production, and that only over the rate of the latter part of December, when there was the usual special dullness on account of the holidays and the approaching January 1 inventory. A particular point is that the official report of December production of Bessemer and open-hearth steel ingots shows it to have been at 59.07 per cent of capacity, which is more than was commonly estimated during the month. Thus it is more difficult for January to show the usual seasonal improvement, always fully expected. In the last eight years the average increase in steel production from December to January has been 12 per cent.

Another point in this connection is that there was less blast furnace capacity active January 1 than December 1, when in normal times there is an increase.

The Steel Corporation reports unfilled obligations as of December 31, 1929, 4,417,193 tons, representing a net increase of 440,481 tons during the year. The last four months of the year showed increases, on account of special classes of business, in rails and tin plate; there is left a net loss in other steel products, but not as much as might have been expected in the circumstances. September showed an increase on account of fourth quarter contracts. In the next three months there was heavy contracting for rails while in December there was contracting for tin plate deliveries over the half year.

Statements that the automobile industry is buying steel with considerably more freedom may be true technically but an increase large in percentage would be small in tonnage, for automobile production in December was at the astonishingly low level of 125,000, less than one-fifth the production of the peak month and only a trifle over one-fifth of the average during the first six months of the year. In December the industry was taking almost no steel, whereby it can increase sharply in percentage and still not do much.

Only 7000 tons of fabricated structural

steel business was reported last week as being closed, an insignificant amount, but no single week would be indicative and particularly the first full week of a new year. Freight car buying was small, simply 500 automobile cars by the Burlington, but some fairly large inquiry came out.

The finished steel price structure may now be described as decidedly weak, in view of recent outright declines in some lines, and various prices now quoted as the current market being subject to concessions. Recently automobile sheets, blue annealed sheets and tin plate declined \$2 a ton, while a large part of the strip business slipped \$2 a ton, by ordinary buyers being given the inside price, old prices representing the general market being now applicable to nothing more than single carloads. In bars, shapes and plates there is more or less weakness.

Wire nails on the other hand have been making an effort to stiffen. The regular open market has been \$2.40 for many weeks but there was rather deep shading of this price and just lately the mills have been endeavoring to stick to \$2.40. They still have lower priced business to complete.

Heavy melting steel scrap in the Pittsburgh district advanced a dollar a ton last week, on buying by two relatively small mills. Dealers have to pay higher prices to cover against old contracts and are taking some losses. Material comes out freely at the higher figure. The advance seems to be local, Chicago and Eastern Pennsylvania reporting no improvement.

Pig iron production in December was lighter than expected. The year's total of pig iron and ferroalloys will be shown by the official report due next month at around 42,500,000 tons, equal to about 11 per cent increase over 1928 and 5 per cent over 1923, previously the record year.

Total steel ingot production last year was about 54,700,000 tons, or about 7 per cent increase over 1928 and 26 per cent increase over 1923. Steel gains more than pig iron because more scrap is used, while iron castings gain hardly at all.

Metal Stocks Are Piling Up— Better Demand for Copper— Silver Reaches Its Lowest Notch

New York, January 13—[Special.]—Accumulation of excessive surplus stocks is the feature development among the metals. Statistics issued by the American

Zinc Institute showed stocks at the close of last year of 77,262 tons, the largest since the end of September, 1921, when the total was 81,135 tons. These stocks are equivalent to two months' consumption whereas a more normal reserve is three weeks' consumption.

Statistics pertaining to the copper industry for December will not be issued until later this week, but these stocks are expected to have increased enormously. Predictions for the gain in surplus of refined copper range from 25,000 to 50,000 tons. In case of an increase by the latter amount it would mean stocks of over 175,000 tons as against 45,000 tons at the end of October, 1928. Copper producers have said that supplies of 100,000 tons are normal, yet this was a "normal" for the heavy consumption of 1929. If consumption this year proves to be less the stocks will be markedly excessive.

Other features of the past week have been the better demand for copper and more-cheerful sentiment and further declines in zinc following the issuance of unfavorable statistics. Tin prices have been rising because curtailment of production is actually getting under way as planned. Lead business is the most steady and wholesome of the major metals.

Among the minor metals the debacle in silver is the feature. Prices have sagged below 44c per ounce, the lowest in history, the decline having started, it is rumored, because of the collapse of a Chinese pool which had been supporting the market. Only China and India use silver as the standard monetary unit, other countries having gradually abandoned it. Therefore the chief use of silver is in the arts and even here it has given away in many cases to platinum and other precious metals. Because of the collapse of silver prices there has been much distress in Mexico where silver mining is one of the main industries. Many mines have been shut down and many employees are out of work.

Industrial activity is improving after the hesitation caused by the stock market decline of November. The steel industry, for instance, is working at 60 per cent of capacity as against 38 per cent during the last two weeks of December. The automobile industry is ordering more raw materials, though will probably not stage a good buying movement until after the automobile shows of this month. Purchasing of steel and metals on the part of the railroads continues very brisk.

Copper producers report better business, prices have been advancing in standard copper on the London Metal

Exchange, as have copper shares on the New York Stock Exchange. Two or three large copper consumers such as the American Telephone & Telegraph Co. and the General Electric Co. are reported to have bought large tonnages. However it is probable that general buying will not set in before December statistics are issued. More conservative members of the copper trade state that recent reports of big buying have been exaggerated. Selling of copper is of course closely tied up with manipulations in Wall Street and there is therefore the tendency at times towards propaganda rather than adherence to strict facts.

A change in the character of business in the red metal was the tendency to buy for delivery further ahead. Thus some orders have been placed for delivery during March. Though prices have been rising on the London Metal Exchange, indicating better sentiment, this has not been accompanied by much increase in business from abroad.

Among the users of copper there is said to have been a much better demand for fine copper wire, reflecting a great stimulation in radio manufacture, which had been curtailed so sharply following the stock market crashes. Fifteen per cent of the copper produced last year is estimated to have gone into automobile manufacture, so that any improvement here has an important bearing.

Tin prices are about one cent per pound above the low level of last year. On Monday purchasing of Straits tin by consumers was close to 400 tons, the best day's business in over a month. Here and there producing companies announce definite curtailment of production and it is believed that this movement will gain ground. Sales of tin on the National Metal Exchange have been the best for several weeks.

The best demand for lead is from the paint manufacturers who are stocking up with supplies for the spring trade. Likewise the demand for lead-covered cables is large, which is in line with promises of great expansion this year on the part of the public utilities. The situation in lead is the healthiest of the major metals and prices are steady.

Zinc is now selling at 5.25c per pound, the lowest level since 1922. It compares with 6.80c at the high point of last year. Consumers have again lost confidence in the situation and are purchasing sparingly.

\$200,000 Plant Addition

Birmingham, Ala.—The Lamson & Sessions Bolt Company, which recently completed the first unit of a plant in North Birmingham, has secured a permit to build an addition at a cost of approximately \$200,000. About seven months ago the company merged with

the Lake Erie Bolt & Nut Company, Cleveland, Ohio, and later purchased the American Bolt Company, East Birmingham. By the consolidation of the various plants here at North Birmingham, this city expects to be one of the leading manufacturing and distributing centers for bolts and nuts. The company has purchased the Foster Bolt & Nut Manufacturing Company, Cleveland, Ohio, at a reported price of \$2,000,000, which will make it the second largest nut and bolt manufacturing company in the United States, it is said. In addition to its Birmingham plants, the company operates plants at Chicago, Cleveland and Kent, Ohio.

The Year Starts Well in the Birmingham District

Birmingham, Ala., January 13—[Special.]—An encouraging start is being made on the new year, according to iron and steel leaders, with indications of a splendid first quarter being experienced. Sales of pig iron are quite numerous but in small lots, the aggregate so far not being equal to the make. Production during December was lowered a little by the blowing out of a small blast furnace and banking fires in a larger one. Shipment of iron outside the territory has not started in strongly as yet.

Melt of iron in the home territory is gathering momentum as plants are reporting greater activity and output. The pipe industry is now making more stock than for several weeks. The radiator shop is on a five day week schedule with 10-per cent additional labor force employed. Stove foundries and machine shops have taken up renewed activity.

Survey shows very little pig iron on shop yards throughout the home section and delivery is prompt in all instances. Quotations are firm on the \$15 base, No. 2 foundry. Low freights by rail and steamship lines to the East along the Atlantic coast will continue through the first half of the year and it will be possible to move out a considerable tonnage of the surplus iron.

While there is slight improvement in the pig iron market, conditions are getting better in steel circles. The open hearth furnace operation in this district is near capacity. Gulf States Steel is still adding to its stock of billets preparatory to placing machinery for the blooming mill next month. Foundations for the blooming and plate mills at Gadsden are nearing completion and machinery is being brought in for both plants. Within 60 days these two new mills should be completed and by then the new sheet mill will have been contracted for and work started.

Steel mill operations in Alabama are above 50 per cent capacity, with prob-

abilities of 65 per cent being noted by the end of the month. The railroads are beginning to give instructions on their orders; the Central of Georgia is receiving cars on its order for 50 flats and 500 gondolas from the Pullman Car & Manufacturing Corporation. The Tennessee Coal, Iron & Railroad Company will roll rail for the railroads as required, several months' operation of the Ensley works being in sight. Supplemental orders for rail and new orders for cars are anticipated shortly.

The coal mining industry is showing little change. Statistics as to production give 1929 upwards of 240,000 tons more than the previous year, 18,300,000 tons being estimated for 1928. The coke market is also without change. Production is being maintained and independent producers are carrying very little stock. The scrap market is quiet with few items moving, the total tonnage not being large.

Quotations on pig iron and iron and steel scrap are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.50 to \$15.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$15.00 to \$15.50; iron of 2.75 to 3.25 per cent silicon, \$15.50 to \$16.00; iron of 3.25 to 3.75 per cent silicon, \$16.00 to \$16.50.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	17.00 to 18.00
Old steel rails	13.00 to 14.00
Heavy melting steel.....	10.50 to 13.50
No. 1 cast.....	12.00 to 13.00
Stove plate	11.00 to 12.00
No. 1 railroad wrought.....	10.00 to 11.00
Old car wheels	11.00 to 12.00
Old tramcar wheels	12.00 to 13.00
Machine shop turnings.....	6.00 to 7.00
Cast-iron borings	6.00 to 7.00
Cast-iron borings (chem.)..	13.00 to 13.50

\$2,715,500 Expenditure Planned

Memphis, Tenn.—The Memphis Power & Light Company plans to expend \$2,715,500 for new construction in 1930, including \$591,000 by the gas department, of which approximately \$400,000 will be expended for large mains; \$830,000 by the electric department to increase power plant facilities and \$600,000 for transmission lines. Other expenditures will be made by both departments for the normal expansion of the system.

Spray Manufacturing Plant

Damascus, Va.—A new factory is rapidly nearing completion here for the production of an all-summer spray material for apples, peaches and other vegetation. The plant is being built by the Calcium Sulphide Corporation, of which John L. Crist is president, and the new product is known as Calcium Mono Sulphide. The capacity of the plant will be from 2000 to 3000 tons annually. In addition to Mr. Crist, other officers of the company include Glen M. Smyth, Damascus, vice-president; Roby C. Thompson, Abingdon, Va., secretary, and Roland R. Wright, Clinchburg, Va., treasurer.

HIGHWAYS AND MOTOR TRANSPORT

Introducing New Road Binder

Material Successfully Used in Europe for Some Years to be Produced by Flintkote Interests

Colas, a new road binder, is being introduced in this country by Flintkote Roads Inc., New York and Boston. This binder is described as being an emulsion of pure unfluxed straight run asphalt, which can be applied in any weather when temperature is above 40 F°, requiring during the operation neither elaborate equipment nor highly skilled labor.

For several years the new preparation has been successfully used in Europe in the construction of several thousand miles of highways, and extensively as a binder in the construction of drives and pathways on many large estates. This success is attributed to two fundamental factors embodied in the new process. One of these is the effectiveness of asphaltic bitumen as a road binder, and the other a quality of penetrating into the smallest crevices, thereby sealing the particles of stone with a film of asphalt. This penetrative quality binds the entire structure of the road into a durable, waterproof, frostproof unit, and to a great extent precludes the possibility of any superfluous binder bleeding or pushing into waves in warm weather, say the producers.

Preliminary work necessary in applying the new dressing calls for a thorough cleaning of the surface of the road and the filling of depressions and potholes with stone grouted with Colas. Then actual application is made from a pouring pot, or with one of the various forms of pressure distributors now on the market. Before the Colas has time to set, it is covered with a coat of stone

chippings or pea gravel and then rolled. Such a road is said to be skid proof and since no film of asphalt remaining on the surface it remains the color of the granite, limestone, clinker, slag or pea gravel coating, thus producing almost any shade of surface desired. Immediately upon completion Colas-treated roads may be used without fear of injuring either the road or vehicles, as there is no pickup or tracking, it is said.

In addition to treating entire surfaces of roads and driveways, the preparation may be used for repairing potholes and for surfacing as a penetration coat on a two-inch or three-inch thickness of graded stone in constructing bituminous macadam roads, for filling wood block bridge floors and wood block paving, and for making and reconditioning hard tennis courts and playgrounds.

Flintkote Roads Inc., which manufactures and distributes Colas in this country, offers a complete service to road builders, including pressure tank trucks with equipment to deliver the preparation to the job on which it is to be used. An engineering service is also maintained to supply officials and engineers with information about this new road emulsion and how it may be used in constructing, repairing and maintaining secondary highways.

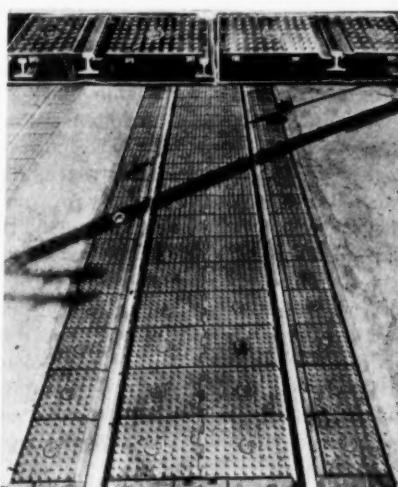
\$18,000,000 Arkansas Bonds

Little Rock, Ark.—The State Highway Commission, which was to have opened bids January 11 for the purchase of

\$18,000,000 bonds for road construction in 1930, has postponed the date of sale to February 11, according to Justin Matthews, a member of the commission.

Paving System for Grade Crossings

Announcement has been made by the Indianapolis Switch & Frog Co., Springfield, Ohio, of a metal paving system for grade crossings invented by E. C. Price and T. L. Hanley, consisting of a series of rubber cushioned plates resting on stringer rails attached to the ties of the railroad tracks. These plates are described as being interchangeable, interlocking, insulated, and self-contained, and as having embodied in them the principles both of the manhole cover and of the solid rubber tire. In putting down this system of plate paving, first the three stringer rails are laid, one on each side of the railroad track and one in between the track rails. Then the plates are dropped in place, one end of each plate unit resting on the stringers and the other end connecting with the flagged base of the railroad track, where it is

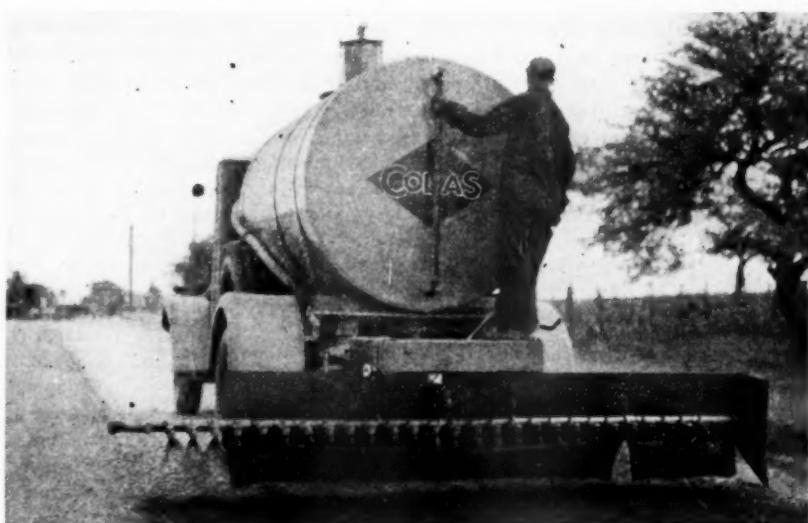


Typical Crossing Paved with Cushioned "Bull Frog" Paver Units

insulated with rubber. At the middle where the plates interlock and rest on the stringer, they are held in place by anti-lift pins. This same means is used to hold the outside plates to the outer stringers. A metal curb protects that part of the street paving which connects with the crossing.

\$1,360,000 Road Bonds Voted

San Angelo, Tex.—Two West Texas counties have voted a total of \$1,360,000 bonds for roads, Haskell County voting \$985,000 and Crockett County voting \$375,000.

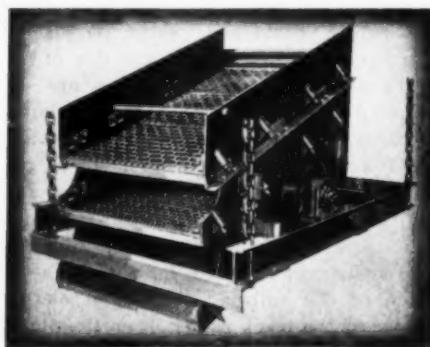


Distributing Colas on Roadway Surface

NEW AND IMPROVED EQUIPMENT

Vibrator Screen for Heavy Duty

After a period of investigation by its engineering and development departments, the Stephens-Adamson Mfg. Co., Aurora, Ill., announces a new vibrator screen, the S-A Vibrator, a power actuated screen described as accurately designed and built to give satisfactory separating service for long periods. Ability to develop positive vibration is incorporated in the screen as a fundamental



Stephens-Adamson Vibrator Screen

feature. Also, the machine has been constructed to withstand constant vibration without perceptible effect on the equipment. Screens are built in dimensions ranging from 2 feet wide by 4 feet long to 5 feet by 8 feet, available in single, double and triple deck assemblies. Four different rotor mechanisms are built for installation in the several assemblies, selected according to severity of duty. Major features of importance in the screen are: Positive vibration, grid type screen support, suspended sub-frame, high duty self-aligning ball and roller bearings, pressure lubrication to each individual bearing, enclosed fan-cooled driving motors, V-belt drive, demountable mechanism and other features. A descriptive catalog describes the machine.

Westinghouse Battery Charger

A Rectox rectifier for charging batteries by means of copper oxide rectification is announced by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Employing the copper oxide principle this charger presents what is described as a simple, safe and satisfactory means for charging storage batteries in all applications. It is easy to operate and by reason of its light weight may be moved to the battery easily, any available lamp socket serving as a connection. In automobiles the charger may be placed on the running board, making connections with the battery left in place in the car. With the exception of fuses, which protect both



Rectox Rectifier

the a-c and d-c circuits, there are no parts to wear out or replace, and as no chemicals or acids are used there is no danger of explosion or corroding fumes. The copper oxide principle of rectification takes advantage of the electrical properties of copper, coated with a layer of copper oxide. The electric current is allowed to pass in one direction only, and since there is no electrolytic or chemical action, the Rectox does not wear out. The charger may be used in the home, in public garages, industrial plants, central stations and other places where batteries need charging.

Chipping Hammers

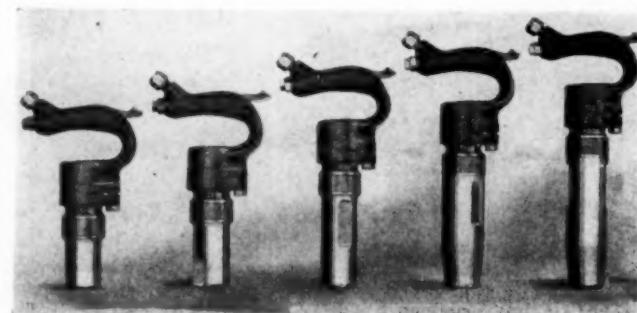
Incorporating a number of new features, a line of high speed pneumatic chipping hammers has been developed by the Ingersoll-Rand Company, New York. An interesting feature is the use of a plate valve of the flapper type, a thin beveled plate which permits hammers to be made shorter in over-all length and lighter in weight. The valve flaps down on its seat in a valve box to close the air ports and rises to open them, the action resulting, it is said, in exceptional power and speed. With no sliding movement, the valve has a smooth positive action which accounts for easy holding and sensitive throttling. Another

Meriam Manometer

In order to overcome the difficulty often met with in filling the tubes of manometers, the Meriam Co., Cleveland, Ohio, has put on the market a specially designed manometer with a large bore tube. This is claimed to make it easy to introduce the measuring liquid and to facilitate the disengagement of air-bubbles which would affect the accuracy of the readings. A still further advantage of the larger bore is that the greater area largely neutralizes the capillary action of the sides of the tube, thus making the tops of the liquid columns less convex or concave and therefore easier to read correctly.

Easy to Fill The increased size of the bore does not, of course, affect the differential level between the two legs of the tube, as this depends only upon the difference in pressure between the two points to which the instrument is connected.

feature is the throttle valve, a combination piston and poppet type, giving fine graduation of port opening. Open type handles are standard on these chippers; the handles screw on the barrels and are locked by a new type pinch bolt arrangement. The exhaust is through the side of the barrel and may be deflected by an adjustable exhaust deflector. Hammers are furnished in size 000— $\frac{3}{4}$ -inch stroke; size 100—1-inch stroke; size 200—2-inch stroke; size 300—3-inch stroke, and size 400—4-inch stroke, to meet needs of various kinds of chipping and calking work. Their high speed and high power are claimed to make possible heavier and faster cutting, with an extremely smooth cut.



**Ingersoll-Rand
High
Speed
Chipping
Hammers,
of the
Flapper
Valve
Type**

January 16, 1930

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CONSTRUCTION DEPARTMENT

and

NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Ala., Birmingham—City, reported, votes Feb. 11 on \$1,000,000 park bonds for acquiring and developing airport.

Ark.-Tex., Texarkana—Mayor S. C. Nancarrow, Airport Comm. and Chamber of Commerce plan raising \$50,000 to \$75,000 for developing municipal airport; erect 6 large hangars, administration building, manager's building; build 2500-ft. runway and widen intersection of 2 present runways; install lighting system and grade field; plans by Engineering & Construction Corp. of Southern Air Transport, Inc., Fort Worth Nat'l. Bank Bldg., Fort Worth, Tex.

D. C., Washington—Washington Airport Corp., Paul J. Rabbit, Mgr., Natl. Press Bldg., let contract to Bahen & Wright Co., 916 Rhode Island Ave., for 20-plane, fireproof hangar and administration building and passenger station at Washington Airport. 1-2

Fla., Daytona Beach—City, Billy Baggett, Mayor, may install airport lighting system.

Fla., St. Petersburg—Aeronautical & Industrial Holding Corp., of Florida, Fred V. Blair, 201-2 J. B. Smith Bldg., let contract to Arch Construction Co., Jefferson Court Bldg., Orlando, Fla., Earl M. Seitz, in charge of construction, for hangar, Grand Central Airport on Weedon's Island; steel, fireproof, artistic, especially adapted to climatic conditions of semi-tropic and tropical countries; 120x100 ft.; now start erecting administration building with main lobby, ticket office, pilots' quarters, executive offices, weather bureau, etc.; George Young, Engr.; A. V. Trotter, Los Angeles, Calif., representing Roamaircraft Corp., Los Angeles, negotiating to establish airplane plant. 10-10

La., Shreveport—City, soon start constructing airport on Free State plantation site near Agurs; expend \$200,000; engineering plans by H. E. Barnes, City Engr.; architect to be selected for buildings.

Md., Baltimore—Chevrolet Aircraft Corp., Louis Chevrolet, Indianapolis, Ind., subsidiary of Glenn L. Martin Co., Glenn L. Martin, Pres., Middle River, Baltimore will move airplane motor plant here in few days; initially operate in parent company's plant and later erect plant; engine to be 4 cylinder, in line, weighing 283 lb.; 100 h. p.

Miss., Gulfport—Bd. of Supervisors of Harrison County let contract to Zach Bailey, Gulfport, for hangar at municipal airport; workshop to be operated in connection with hangar. 11-28

Mo., St. Louis—See Sewer Construction.

Mo., St. Louis—Ryan Aircraft Corp., Lambert St. Louis Flying Field, subsidiary of Aircraft Development Corp., Edward E. Evans, Pres., Union Tr. Bldg., Detroit, Mich., erect \$25,000 addition to aircraft plant; 64x89 ft.; McDonald & Condie, Archt., 4485 Olive St., St. Louis.

Mo., St. Louis—B. Russell Shaw, Inc., Airport Engr., submitted plan for developing municipal airport, involving \$1,138,500, also second estimate of \$812,500; includes runways, terminal building, lighting system, sewerage, cafeteria, roads, drives, landscaping and fences, fire department building, fire

fighting equipment, medical equipment, water supply, etc.; Harry L. Salisbury, Director of Public Welfare. 12-5

Okla., Oklahoma City—Coffman Monoplanes, Inc., being reorganized as Ranger Aircraft Corp., with John L. McClelland, Gen. Mgr., 307 W. 17th St.; double employment, quadruple production and add new line of air cooled monoplanes to be powered by 169-h. p. Warner motor, in 1930.

Okla., Ponca City—Company formed with George Lauver, Pres.; J. A. Tharp, V. Pres., to manufacture radial gasoline airplane engines.

Okla., Tulsa—City votes Feb. 4 on \$2,230,000 bonds, \$650,000 for airport. 12-12

Tex., Brady—City Council acquired 135 acres for airport; plans developing at once.

Tex., Randolph Field, Schertz—U. S. Government, Capt. A. W. Parker, Constructing Q. M., opens bids Feb. 3 for operations and parachute buildings: 2 buildings, 1 story, U-shape, approx. 90x142x50 ft., with 2 wings approx. 32x27 ft., rein. cone. foundation, hollow tile and stucco, Spanish tile roof, steel sash, struc. steel trusses, wood doors. 11-21

Bridges, Culverts and Viaducts

Proposed Construction

Arkansas—State Highway Comm. receives bids for 2 bridges and approaches. See Roads, Streets, Paving.

Kentucky—State Highway Comm., Frankfort, plans receiving bids soon for 12 bridges, bonds for which, recently sold; H. D. Palmore, State Highway Engr.

Ky., Covington—Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, preparing plans for viaduct at Nineteenth St. and underpasses at Caroline Ave., and Fortieth St.; eliminate grade crossings. 1-9

Louisiana—See Roads, Streets, Paving.

La., Bastrop—Morehouse Parish plans 4 bridges. See Roads, Streets, Paving.

La., Torras—War Dept., Washington, D. C., reported, approved plans Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, Tex., to reconstruct bridge over Old River at Torras, La.

Md., Charlestown—State Roads Comm., Baltimore, receives bids Jan. 21 for timber floor and earth approaches for single span steel girder bridge over P. B. & W. R. R., north of Charlestown, Heisler's Bridge; Cont. C-56-A; G. Clinton Uhl, Chmn.

Md., Towson—Public Improvement Comm., Baltimore, appropriated \$300,000 to erect 7 or 8 bridges and culverts in connection with proposed Prettyboy Dam in Baltimore Co.; Bureau of Highways, Baltimore, will design structures, under supervision of Herman F. Lucke, Jr., head of Bridge Div.; bureau to build roads in Prettyboy area; Nathan L. Smith, Highways Engr.

Mo., Kansas City—A. N. Reece, Ch. Engr., Kansas City Southern Ry. Co., Kansas City, advises, will not receive bids for double track steel bridge over Missouri River; recently reported bids opened after Jan. 1. 1-2

N. C., Charlotte—City, R. W. Rigsby, Mgr., plans receiving bids soon for proposed underpass of Southern Ry. on North Tryon St. 12-19

N. C., Weldon—War Dept., Washington, approved plans North Carolina State Highway Comm., Raleigh, for bridge across Roanoke River, Weldon. 12-19

Oklahoma—State Highway Comm. receives bids for 3 bridges. See Roads, Streets, Paving.

Okla., Tulsa—City, Dan W. Patton, Mayor, plans remodeling bridge, erecting bridge and overpass. See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works receives bids for 9 bridges and approaches. See Roads, Streets, Paving.

Tenn., Knoxville—I. L. Simmons, Chicago, Ch. Engr., Rock Island R. R., will check plans for 1448-ft. bridge, 54-ft. wide, over Tennessee River at Henley St., cost about \$1,000,000; Lee C. Monday, Chmn. of Bridge Committee, 903 Island Home Ave.; George Dempster, City Mgr., advises construction of Henley St. Bridge across Tennessee River, will begin in Feb.; cost about \$1,000,000 1-9

Tex., Port Lavaca—State and Calhoun County, receive bids Jan. 18 for 9,000 ft. creosoted timber causeway with movable span over Lavaca Bay, between Port Lavaca and Green Point, cost \$450,000; A. Schlafl, Div. Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., and T. & P. Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, prepared plans for rein. conc. and steel underpass at Henderson St., under T. & P. Ry. tracks; preparing plans for Summit Ave. viaduct, over tracks; D. L. Lewis, City Engr. 11-14

Tex., Rockport—State and Aransas County receive bids Jan. 18 for 2,500 ft. creosoted timber causeway across Capano Bay, between Live Oak and Lamar Peninsulas, Highway No. 57, Hug-the-Coast Highway, cost \$475,000; F. M. Percival, County Engr., Rockport.

Virginia—State Highway Comm., receives bids for 5 bridges. See Roads, Streets, Paving.

Contracts Awarded

Ark., Strong—Hinkel Sand & Gravel Co., 505 Trenton St. W. Monroe, Monroe, La., has contract to supply 25,000 yd. aggregate sand and gravel for Felsenthal Bridge across Ouachita River, connecting Strong and Crossett, cost over \$40,000; Gauger-Korsmo Construction Co., Fidelity Bank Bldg., Memphis, Tenn., has charge of construction of bridge.

Md., Baltimore—Shoemaker Bridge Co., Pottstown, Pa., has contract for 525 tons fabricated struct. steel for Broening Highway underpass; F. Carozza & Sons, 2444 N. Charles St., contractor. 12-26

Tex., Dallas—Chicago, Rock Island and Gulf Ry. Co., W. H. Peterson, Ch. Engr., Chicago, let contract to Roberts Brothers, 130 N. Wells St., Chicago, for grading, and to John W. Fox, El Reno, Okla., for 2,400 ft. conc. and steel bridge across and ap-

proaches to Trinity River channel, west of Norwood Switch; conc. piers for steel superstructure; creosoted timber approaches; single track; cost about \$500,000. 12-26

Tex., Port Arthur—City Comn., Jesse Hamilton, City Clk., let contract to Scherzer Rolling Lift Bridge Co., 153 W. Jackson Blvd., Constl. Engrs., Chicago, Ill., C. P. Hazelet, Ch. Engr. and Gen. Mgr., to design Pleasure Pier Bridge, providing for plan "C" double leaf Scherzer rolling lift bascule bridge, estimated cost \$274,000; subject to approval by State Attorney General of \$300,000 bonds; W. O. Bower, City Engr. 12-19

W. Va., Spring Hill—Chesapeake and Ohio Ry Co., C. W. Jones, Ch. Engr., Richmond, Va., let contract to Hunt Forbes Construction Co., Huntington, for 25-ft. cone. arch over Upton Creek; estimated cost \$31,000. 1-9

Canning and Packing Plants

Miss., Gloster—Standard Brands, Inc., successors to Wedlar Pickles, Cleveland, O., G. A. Klumb, Wiggins, construct cucumber plant to take care of 1000 acres; 65x245 ft.; cost \$10,000; install tanks, etc. See Want Section—Building Materials; Machinery and Supplies.

Okla., Tulsa—E. B. Rushart and E. J. Rushart, Locust Grove Canning Co., Locust Grove, reported, interested in erection canning plant at Hale Station on Sand Springs Rd.

Tenn., Ooltewah—W. H. Proctor, Knoxville, and H. C. Brand, Ooltewah, reported, interested in organizing company to establish canning plant.

Tex., Alamo—Southeastern Mfg. Co., Orlando, Fla., installing for Carl Bresett, complete fruit packing machinery capable of handling 4 cars grapefruit daily; machinery all steel, welded construction, individual electric motor drives; building completed.

Coal Mines and Coke Ovens

Ky., Madisonville—Lloyd Winchester acquired Parkhill Mine, Hopkins County, and Cardinal Mine, Christian County.

West Virginia—Cory-Mann-George Corp., 26 Beaver St., New York, acquired volatile mines of Central Pocahontas Coal Co., McDowell, W. Va., George H. Loeb, Representative, Hampton Roads, Va., controlling mines at Pageton, Iaeger, Rawls and other places in state; Central Pocahontas Coal Co. contracted with Laclede Coal Co. for practically all of its low volatile coal; Cory-Mann-George Corp. will take over entire sales forces of Central Pocahontas.

W. Va., Belle—E. I. du Pont de Nemours & Co., S. K. Varnes, Ch. Engr., Wilmington, Del., let contract to Wilputte Coke Oven Corp., 469 Fifth Ave., New York, for battery of coke ovens; Raymond Concrete & Tile Co., Youngstown, Ohio, reported, has contract for foundations.

W. Va., Charleston—C. & H. Corp., capital \$150,000, incorporated; T. G. Baillie, 426 Dime Bank Bldg., Detroit, Mich.; coal, oil and gas.

W. Va., Wheeling—Wheeling-Glenwood Coal Co., Glenwood Rd., begin operations at new coal mine on River Rd. below Woodward within 30 days; drift type, will follow 5-ft. vein; employ approx. 50.

Concrete and Cement Plants

Ala., Leeds—Atlas Portland Cement Co., 25 Broadway, New York, advises stockholders voted to accept offer of United States Steel Corp., 71 Broadway, New York, and assets of Atlas Portland Cement Co. have been transferred to nominee of United States Steel Corp. 12-26

Cotton Compresses and Gins

Ark., Eudora—M. Cashion, reported, plans rebuilding burned gin and seed house.

Cottonseed-Oil Mills

Okla., Oklahoma City—Southwest Cotton Oil Co., E. Chickasaw Ave., reported, plans rebuilding burned machine shop, storage and distributing plant.

Drainage, Dredging and Irrigation

Florida—U. S. Engr. Office, P. O. Box 45, Jacksonville, drafting specifications to be complete within about 40 or 60 days for dredging East Coast Canal, Jacksonville to Miami; \$4,221,000 appropriation made by Congress, with \$125,000 set aside for maintenance. 11-14

Fla., Miami—U. S. Engr. Office, Florida Theatre Bldg., Jacksonville, advises funds are available for dredging Indian River portion of Intracoastal Water, St. Johns River to Miami; probably call bids in March.

La., Bossier City—Bd. of Comr. of Greater Drainage Dist. of Bossier Parish,

Bossier State Bank, open new bids Feb. 10 for constructing 4 open drainage ditches in Gravity Sub-drainage Dist. No. 1, Bossier Parish; George E. Dutton, Engr., Ardis Bldg., Shreveport. 1-9

Tex., Houston—Harris County Drainage Dist. No. 2, H. L. Washburn, County Auditor, Court House, opens bids Jan. 30 for cleaning out Main E. Outlet Ditch and Main St. Ditch, South Houston; J. M. Howe, Engr., First Natl. Bank Bldg.

Tex., Point Isabel—A. F. Parker, San Benito, authorized by State Water Bd. Austin, to obtain drainage water and divert water from Rio Grande for irrigating 7000 acres north of here in Cameron County; erect reservoir with capacity of 22,800 acre ft. and use 14,000 acre ft. of water yearly; allowed 2 years to begin construction and 5 years to complete project.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ark., Hot Springs—Arkansas Power & Light Co., Pine Bluff, reported, let contract to Virginia Bridge & Iron Co., Roanoke, Va., for 625 tons fab. struc. steel for tainter gates for hydro electric development on Ouachita River. 10-17

Fla., Dunnellon—Florida Power Corp., Power & Light Bldg., St. Petersburg, advises regarding purchase of municipal distributing system at Dunnellon; will expend approx. \$8,000 in revamping distribution system and installing new series of street lighting system. 1-9-30

Louisiana—Louisiana Power & Light Co., Algiers, reported, extend line to Linwood and Wills Point.

La., Lafayette—City installing Diesel engine at light and power plant; Busch-Sulzer Diesel Engine Co., 3300 S. 2nd St., St. Louis, Mo., Mchly. Contr. 1-2-30

Md., Easton—Maryland Light & Power Co., lately noted incorporated, will be subsidiary of Empire Public Service Co., 29 La Salle St., Chicago, Ill., Gen. Office, Pocomoke City; has application before Public Service Comm., Baltimore, for consolidation of 13 Maryland electric utilities, including Empire Public Service Corp., Maryland East Coast Utilitie, Inc., Betterton Ice & Electric Co., Home Electric Light Co., etc.; also filed petition to mortgage properties to extent of \$1,200,000, with 5½% bonds and to issue 14,384 shares of common stock at not less than \$20 a share and 5000 shares of preferred stock at not less than \$88 per share. 11-21

Miss., Booneville—City, J. B. Alexander, Mayor, receives bids Jan. 17 for street lighting system. 11-21

Miss., Walthal—Mississippi Power Co., Gulfport, reported, plans \$25,000 substation.

Mo., Eldon—Missouri Utilities Co., subsidiary of Community Power & Light Co., Planters Bldg., St. Louis, reported, install white way along Maple St.; has 10 yr. light and power franchise.

Mo., New Madrid—Bd. of Alderman will install 300 h. p. Worthington air injection, Diesel type, oil burning engine at light plant.

Mo., St. Louis—Union Electric Light & Power Co., 12th and Locust Sts., reported, let contract to Mississippi Valley Structural Steel Co., 3117 Big Bend Rd., 275 tons fab. struc. steel for garage.

Mo., Unionville—City, Adam Calhoun, Clk., reported, plans light plant; W. B. Rollins & Co., Railway Exchange Bldg., Kansas City, Engrs.

N. C., Wilson—City double capacity of light plant; install 5000 watt generator and 1000 h. p. boiler; enlarge building; Wm. C. Olsen, Exchange Place, Raleigh, supervising work. 12-19

Oklahoma—Oklahoma Gas & Electric Co., Oklahoma City, acquired distribution systems connecting lines and other electrical equipment in Canton, Longdale, Hitchcock, Woodward and Eagle City from Earl W. Baker Utilities Co.

Okla., Ada—City, reported, votes Jan. 21 on granting franchise to Oklahoma Gas & Electric Co., Oklahoma City.

Okla., Weleetka—Public Service Co. of Oklahoma, Public Service Bldg., Tulsa, construct addition to power plant; 150 ft. sq.;

cone. substructure; steel and brick substructure; conc. floors; conc. roof; Sargent & Lundy, 20 N. Wacker Drive, Chicago, Ill., Archt. and Constr. Engr.; will install 15,000 kw. Westinghouse Electric & Mfg. Co.'s turbine and condenser; two 1000 h. p. Babcock & Wilcox, 85 Liberty St., New York, Stirling type boilers with B. & W. air preheaters. 1-30

Tenn., Charleston—Tennessee Electric Power Co., Chattanooga, reported, acquired Hiwassee Light & Power Co.

Tenn., Knoxville—Tennessee Public Service Co., Knoxville, applied to State Railroad and Public Utilities Comm., Nashville, for permission to construct transmission line from Waterville, N. C. to Knoxville, distance of 55 miles.

Tex., Goose Creek—City, reported, rejected plans for erection of municipal light and power plant. 12-12

Virginia—Appalachian Electric Power Co., Roanoke, let contract to Virginia Bridge & Iron Co., Roanoke, for 450 tons of steel for addition to power plant at Glen Lyn. 12-19

Va., Shenandoah—Shenandoah River Power Co., Harrisburg; L. E. Long, Gen. Supt., will have hearing Feb. 18 before State Corporation Comm., Richmond, for constructing hydro electric plant on South Fork of Shenandoah River near Elkton; work to begin after license is granted. 12-12

West Virginia—J. K. Anderson, Engr., Charleston, reported, appointed to make report on proposed power dam development on Cheat River watershed by West Virginia Power & Transmission Co., subsidiary of West Penn Electric Co., both 14 Wood St., Pittsburgh, Pa. 1-2-30

W. Va., Davis—City votes Jan. 28 on sale of city electric power and water plant to Monongahela West Penn Public Service Co., Fairmont; company plans to develop water power.

Fertilizer Plants

W. Va., Charles Town—Central Chemical Co., Hagerstown, Md., reported, acquired Washington, Alexander, Cook & Co.; changed name to Charles Town Fertilizer Co.

Flour, Feed and Meal Mills

Md., Hagerstown—D. A. Stickell & Sons, Inc., 67 W. Baltimore St., reported having plans completed by J. J. Klinkhart, Kohler Bldg., for rebuilding 5 story flour mill and grain elevator; cost \$100,000; install hoisting, conveying and screening equipment.

Foundry and Machine Plants

Ala., Anniston—Kilby Car & Foundry Co., 630 W. 10th St., probably add to hot bed and roll-stand facilities in 1930.

Ala., Birmingham—Lamson & Sessions Bolt Co., R. M. Broadwell, 3103 N. 27th Ave., Cleveland, Ohio, let contract to Johnson Construction Co., for addition to original plant; 100x240 ft., giving entire plant floor area of 63,400 sq. ft.; Geo. S. Rider, Engr., Century Bldg., Cleveland, Ohio. 1-2

Ala., North Birmingham (Sta. Birmingham)—Lamson & Sessions Bolt Co., 1971 W. 85th St., Cleveland, Ohio, with plant here, acquired Foster Bolt & Nut Mfg. Co., Union Ave. & E. 72nd St., Cleveland, Ohio.

La., New Orleans—Prager, Inc., capital \$150,000, chartered; Bruno Prager, 638 Central Ave., R. F. D. 2; general machinery and manufacturing works.

Mo., Kansas City—Red Star Machinery Co., capital \$15,000, incorporated; F. H. Decker, 1121 E. 11th St.; corn crackers, separators and spare parts for same.

Mo., St. Louis—Skinner Bros. Mfg. Co. (Exhaust and Blow Pipes), 98 S. Vandeventer Ave., has preliminary plans drawn for plant addition; 2 story, brick; Aegeirer & Bailey, Archts. Ry. Exch. Bldg.

Okla., Ardmore—Nathan Pipe & Supply Co., capital \$50,000, incorporated; Meyer Nathan, Abe Kaufman.

Okla., Oklahoma City—Specialty Tool Corp., 1239 E. 29th St., incorporated; Roy Kink.

Tenn., Chattanooga—Tennessee Stove Works, Ben M. Rawlings, E. 11th St., erect \$200,000 additional enameling plant. Highland Park Ave., between 13th and 14th St.; 1 story, face brick, steel window frames; employ 150 to 200; install electrical furnace; operate in connection with present stove plant.

Tenn., Rockwood—Rockwood Stove Works plans expanding plant to increase production about one-third.

Tex., Amarillo—Amarillo Foundry Co., 1505 Johnson St., capital \$25,000, incorporated; H. G. Woodruff.

Tex., Beaumont—Sampson Iron & Metal Co., 1047 Crockett St., erect warehouse for machinery and supplies, adjoining present plant, Holmes and Crockett St.; 60x100 ft.

Tex., Houston—Adair Machine Works, 2412 Railroad Ave., plans enlarging shop to manufacture oil field tools.

Tex., Lufkin—Lufkin Foundry & Machine Co. let contract for \$20,000 building; steel, conc.; Lufkin Cotton Cleaning Co., Lessee, manufacturer of cotton cleaners and separators and complete line of sheet metal work used in gins.

Tex., Waco—San Antonio Machine & Supply Co., Carl Krueger, Pres., 325 N. Center St., San Antonio, acquired D. June Machinery Co., 208 S. First St.

Garages and Filling Stations

Ark., Fayetteville—Standard Oil Co. of Louisiana, Baton Rouge, La., plans erecting garage, galv. iron, 24x24 ft.; warehouse, metal, 28x60 ft.; pump house, steel, 8x12 ft.; 3 steel storage tanks, 10x30 ft.; enclosed by metal fence 5 to 6 ft. high.

Ark., Lake Village—Louisiana Oil Refining Co., let contract to Geo. W. Burks, Dermott, for filling station, North Lake Shore Drive.

Ark., Little Rock—Mrs. Emille Zuendt, 1900 Wright Ave., plans filling station; 1 story, brick veneer.

Fla., Auburndale—Auburndale Motor Co., Inc., chartered; J. E. Evans, J. W. Jones.

Fla., Tampa—Motor Parts Co., Inc., chartered; M. G. Gibbons, 823 S. Delaware Ave.

Ga., Atlanta—Shell Petroleum Corp., Shell Bldg., St. Louis, Mo., erect filling stations, Courtland St. and North Ave., Forsyth and Spring St., and bulk station, Fair St. near Delta Pl.; reported, erect approx. 20 stations here.

11-28

Ky., Lexington—D. G. Taylor plans erecting service station and store, Georgetown Pike.

La., New Orleans—A. J. Motor Co., A. J. Nelson, Pres., Willys-Knight and Whippet dealer, leased building, 859-61 Carondelet St., Cor. Julia St.; renovate for display rooms and service departments.

Md., Baltimore—Stanley Jokumaitis erect \$10,000 garage and building, 105-07-09 Penn St.; 45x90 ft., slab roof; G. W. Carstens, Archt., 1119 Ellicott Driveway.

Md., Baltimore—Shell Eastern Petroleum Products, Inc., Court Square Bldg., acquired site, Monument St. and Philadelphia Rd., for filling station; private plans.

Md., Baltimore—T. F. Hare, 3418 Guilford Terrace, erect \$15,000 filling station, 1 E. 21st St.; 70x25 ft.; owner builds.

Miss., Gulfport—Superior Oil Co., Gulfport, opens bids about Feb. 1 for filling station; old English architecture, tile, stucco; Shaerds Bean, Archt.

Mo., Kansas City—Firestone Tire & Rubber Co., 2001 Grand Ave., and Akron, Ohio, drawing revised plans for \$75,000 super service tire and filling station, Grand Ave. and 20th St.; C. A. Smith, Archt., 1009 Baltimore Ave.

10-17

Mo., Kansas City—Phillips Petroleum Co., L. E. Phillips, Pres., 3020 Roanoke Rd., drawing plans for \$16,000 filling station; 1 story, brick; private plans.

Mo., St. Louis—Mrs. J. Lindsey, care Franciscus Realty Co., 804 Chestnut St., has plans drawn for rebuilding burned garage, 4432 Olive St.; 1 story, brick.

Mo., St. Louis—Alexander Berger, 411 N. Seventh St., plans rebuilding burned garage, Chippewa Ave. and Nebraska Ave.; 1 story, brick.

N. C., High Point—McDonald Service Stores, Inc., Firestone dealer, let contract to Thomason-Bartholomew Co., Piedmont Bldg., Charlotte, for \$30,000 service station, N. Main and Church St.; 1 story, stucco, L-shape, 92x78 ft., display rooms and brake service; M. R. Marsh, Archt., Bldrs. Bldg., Charlotte.

1-9

Ola., Clinton—Mitchell-Weaver Motor Co., capital \$25,000, incorporated; Moss Weaver, R. A. Mitchell.

Ola., Okmulgee—Firestone Service Stores, Inc., capital \$50,000, chartered; R. G. Williams, R. L. Robe.

S. C., Charleston—Firestone Stores, Inc., opens bids Jan. 21 for service station, Meeting and Ann St.; 40x192 ft., with concourse,

68x79 ft., 1 and 2 story, built-up roof, brick; following estimating: T. W. Worthy, N. Commercial Wharf; Simons-Mayrant Co., Peoples Bldg.; Charleston Constructors; Dawson Engineering Co., 21 Broad St.; Thos. McCullum, 216 Congress St.; M. L. Stevenson, 273 E. Bay St.; C. M. Canady, 56 Maple St., all Charleston; J. D. Newcomer, Archt., 32 Broad St.

1-2
S. C., Georgetown—Stampers Chevrolet Co., capital \$15,000, incorporated; C. W. Stamper.

Tex., Houston—Stewart & Stevenson, 1719 Preston Ave., plans \$100,000 plant for repairing automobile bodies.

Tex., Mineral Wells—Turner-Wagley Motor Sales Co., capital \$64,000, incorporated; C. E. Turner, E. F. Wagley.

Tex., Pampa—Texas Garage, Inc., capital \$50,000, chartered; L. M. Guyer, Bob McCoy.

Tex., San Antonio—O. C. Bosbyshell, 1227 Broadway, has low bid from K. G. Granberg, 340 Normandy St., at \$19,272, for garage, Broadway and Sixth St.; 1 story, hollow tile and stucco, approx. 57x145 ft.; Chas. Boelhauwe, Archt., Aztec Bldg.

Tex., Sherman—Gulf Refining Co., Gulf Bidg., Houston, erect service station, W. Houston St.; brick, conc.; contract not let.

Tex., Temple—Birkhead Motor Co. changing name to Hutchins-Dougherty Motor Co.

Tex., Vernon—Ladd Motor Co., Inc., capital \$40,000, incorporated; C. M. Ladd, A. D. Skinner.

Va., Pulaski—Pulaski Filling Station, Inc., capital \$25,000, chartered; W. H. Wysor.

Va., Roanoke—Gwaltney Tire & Battery Co., Inc., 5 Roanoke Motor Mart, capital \$50,000, chartered; H. H. Gwaltney.

Va., Waynesboro—Routt-Lineeweaver, Inc., capital \$50,000, incorporated; R. N. Lineeweaver, W. K. Routt, Jr.; succeeds Lineeweaver Auto Co.

Gas and Oil Enterprises

Ala., Montevallo—Town Council, reported, granted gas franchise to Alabama Natural Gas Corp., controlled by Tri-Utilities Corp., 44 Wall St., New York.

Arkansas—Arkansas Natural Gas Corp., Ardis Bldg., Shreveport, La., and Southern Cities Distributing Corp., D. W. Harris, V. P., reported, plans expenditure of \$6,000,000 in 1930; work includes 137 miles of 20-in. pipe line from gas field near Monroe to connect with system near Shreveport; erecting compressor station at El Dorado; plan laying pipe lines in Monticello, Stuttgart and number of other cities in Arkansas.

12-12

Ark., Coal Hill—City, J. H. Sullivan, reported, granted gas franchise to Conn. Graebell, Rialto Bldg., St. Louis, Mo.; construct gas distribution system, etc.

Ark., Fayetteville—Southern Union Gas Co., Wolford Cain, V. P., Dallas, Tex., reported, acquired Arkansas Western Gas Co.; will operate plant as subsidiary.

Ark., Siloam Springs—City reconsidered and accepted franchise of Arkansas Western Gas Co., Clarksville.

1-2

Ark., Warren—Arkansas Natural Gas Corp., Ardis Bldg., Shreveport, La., reported, soon let contract for gas distribution system.

11-21

Ga., Atlanta—Atlanta Gas Light Co., 75 Marietta St., reported, plans \$2,000,000 expenditure in 1930 in extension of mains to outlying districts, etc.; work to begin at once.

Ga., Savannah—Southern Dredging Co., Clark Bldg., Jacksonville, Fla., reported, has contract for constructing dock for Mexican Petroleum Corp., 122 E. 42nd St., New York, in connection with \$1,000,000 refinery on Foundation Tract; S. B. Schapiro, Engr., Charge.

12-26

Ky., Central City—City will grant 30 yr. gas franchise on Jan. 28; reported, Louisville Gas & Electric Co., Louisville, negotiating.

Mo., St. Louis—City Service Oil Co., Wm. J. Lund, Local Mgr., 600 S. Vandeventer Ave., erecting 1 story storage and distribution plant at 4226 Chippewa St.; cost \$45,000 with equipment.

Mo., Troy—East Missouri Oil & Gas Co., incorporated; J. Harlan Troy, Andy J. Brown.

N. C., Clinton—Putnam Gas Co., capital \$25,000, incorporated; G. W. Fleming, L. C. Williams, R. L. Robe.

N. C., Hendersonville—Carolina Central Gas Co., incorporated; Bryon T. Gifford, R. P. Frees.

N. C., Hendersonville—Utilities Gas & Electric Co., 22 W. Monroe St., Chicago, Ill., reported, has franchise for construction and operation of gas plant; extend gas mains to Flat Rock, Druid Hills, and other suburbs; work on plant to begin within 60 days; R. P. Freeze, Hendersonville, will be temporary representative.

Oklahoma—Lion Oil Refining Co., El Dorado, Ark., advises company has not considered merger with White Oak Oil & Refining Co., Allan; Caravan Oil & Refining Co., Oklahoma City and Gulf States Terminal & Transport Co., Q & C Bldg., New Orleans, La., as lately reported.

Oklahoma, Ada—Tom McCarty Oil Co., capital \$15,000, incorporated; Tom McCarty, M. R. Chilcott.

Oklahoma, Guthrie—Empire Pipe Line Co., Bartlesville, constructing six 80,000 bbl. storage tanks at pumping station; cost \$200,000.

Oklahoma, Oklahoma City—C. R. Obermeyer Oil Co., 322 Perrine Bldg., incorporated; C. R. and M. D. Obermeyer.

Oklahoma, Okmulgee—Independent Oil & Gas Co., enlarging lubricating refinery; J. M. Wadsworth, V. P. in charge.

Oklahoma, Oklahoma City—Pyramid Royalty Co., capital \$50,000, incorporated; G. E. Hess, 1423 W. 33rd St.

Oklahoma, Oklahoma City—K. W. B. Drilling Co., capital \$25,000, incorporated; C. C. King, 438 W. 22n St.

Oklahoma, Tulsa—Ethyl Gasoline Corp., J. G. Martin, Div. Mgr., Petroleum Bldg., will construct gasoline testing laboratory; 1 story; fireproof.

Oklahoma, Tulsa—R. H. Smith, Atlantic Bldg., Philadelphia, Pa., reported, acquired McCulloch Oil Co., will merge McCulloch Co., Marquette Oil Co., and other oil properties recently acquired.

Tenn., Cleveland—Cleveland Gas Co. has franchise for gas main extensions.

Tenn., Maryville—Utility Gas & Electric Co., 22 Monroe St., Chicago, Ill., reported, granted 50 yr. gas franchise; begin work in next nine months on gas plant.

Tenn., Murfreesboro—Connor & Sons Construction Co., 407 Security Bldg., Kansas City, Mo., reported, will probably receive contract for distribution system for A. H. Latimer and James W. Peterson.

12-26

Tex., Abilene—Medina Oil & Gas Co. incorporated; L. D. Prewitt, A. M. Davis.

Tex., Amarillo—Timms-Sutphen Oil Corp., capital \$90,000, incorporated; L. W. Timms, Oliver-Teakle Bldg.

Tex., Dallas—Pann Petroleum Corp., capital \$250,000, incorporated; B. David Thomas, 3700 Wendelken.

Tex., San Angelo—Minter Oil Co., capital \$50,000, incorporated; Hugh M. Tucker, Gruber.

Tex., Sugarland—Humble Oil & Refining Co., Humble Bldg., Houston, reported, let contract to Houston Structural Steel Co., 3910 Washington St., Houston, for all steel compressor station near here.

Tex., Woodville—Pure Oil Co., Chicago, Ill., reported, lay pipe line through Tyler county, will cross Neches River north of Corrigan to Woodville; probably construct pumping station on Mill Creek; will transport oil from Van oil field to refinery nr. Gulf coast.

Tex., Covington—City soon receive bids for gas franchise; C. C. Collins, City Atty.

Va., Virginia Beach—Town Council receives bids about Feb. 6 for gas franchise.

W. Va., Charleston—See Coal Mines and Coke Ovens.

Ice and Cold-Storage Plants

Md., Baltimore—C. Hoffberger & Co., Monument and Forrest Sts., erecting engine room with own forces; 1 story, approx. 80x100 ft., brick; ordered modern machinery for plant from York Ice Machinery Corp., York, Pa.

Miss., Belzoni—Southern United Ice Co., Lampton Bldg., Jackson, erect raw water ice plant; 50x80 ft., brick, steel, 20 ton; Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson.

Miss., Brookhaven—Southern United Ice Co., Lampton Bldg., Jackson, erect raw water ice plant; 60x100 ft., brick, steel, 40 tons, 5000 sq. ft. paving; Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson.

Mo., Jefferson City—R. C. Chamberlain & Co., Stegmaier Bldg., acquired entire issue of securities of St. Louis Carbonic Ice Co., 813 Hempstead St.; will manufacture liquid

carbonic gas, used in soda fountains, and solid carbon dioxide, ice with temperature of 100 degrees below zero; new product called "Vaporice" and made under direction of R. H. Tait, St. Louis.

Tenn., Alcoa—Blount County Ice Co., incorporated; Clarence Wilder, R. R. Kramer.

Tex., Raymondville—Central Power & Light Co., Frost Natl. Bank Bldg., San Antonio, let contract to W. A. Veltner Construction Co., Brownsville, at \$16,784, for 30-ton ice plant; 1 story, brick, tile, rein. conc.; plumbing, wiring and piping included in general contract; John M. Marriott, Archt., Frost Natl. Bank Bldg., San Antonio. 11-21

Tex., Waller—A. D. Purvis erecting ice and cold-storage plant and addition to store.

Va., Chester—See Milford.

Va., Dutch Gap—See Milford.

Va., Milford—Virginia Ice & Coal Co., Inc., Marshall G. Munce, Pres. and Mgr., 3515 Cary Street Rd., Richmond, let contract to Doyle & Russell, Grace American Bldg., Richmond, for ice plants at Milford, Tappahannock, Dutch Gap and Chester; install ice making machinery and accessory equipment from York Ice Machinery Corp., York, Pa.; Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.; Fairbanks, Morse & Co., Chicago, Ill. 1-9

Va., Tappahannock—See Milford.

Iron and Steel Plants

Fla., Hialeah—Peninsular Iron & Steel Co., capital \$15,000; E. C. Marik, J. P. Grethen.

Tex., Corpus Christi—Alamo Iron Works, 100 N. Broadway, let contract to Chas. Runck, 1520 Water St., for \$30,000 plant addition; 66x100 ft., rein. conc., conc. floor, bonded 2-yr. roof; construction just started; Hardy & Curran, Archt., Nixon Bldg. 1-2

W. Va., Weirton—National Steel Corp., E. T. Weir, Chrmn., Grant Bldg., Pittsburgh, Pa., advises building program of Weirton Steel for 1930 is as follows: Rebuilding No. 1 blast furnace and enlarging its capacity, 700 tons to 1100 tons daily, work under way to be completed by Apr. 1; all work being done by company's forces, with exception of steel work, which is being erected by Ritter-Conley Co., Pittsburgh, Pa.; addition to by-product coke plant of about 30 ovens of improved Becker type, being built by Koppers Co., Koppers Bldg., Pittsburgh, Pa., large gas cleaning plant, contract not yet let; continuous mill for producing rails and structural material, contracts not yet let, but construction to be started within 90 days and mill completed during year. 11-28

Land Development

Ga., Atlanta—City, L. L. Wells, Gen. Mgr., Parks and Playgrounds, recommended following improvements to various parks: widen roadways in Grant and Piedmont Parks; erect new bath house in Maddox Park; greenhouse and conservatory in Grant Park; completion of Cyclorama building; erection of animal house.

Ga., Atlanta—Charles F. Wilkinson, 122 4th St., N. W., interested in developing new section of Druid Hills subdivision on Ponce de Leon Ave., also subdivision on Lullwater Rd.; install water, sewers, electric; gas, etc.

La., New Orleans—Residential & Commercial Realty Co., Inc., capital \$100,000, chartered; Albert J. Derbes, 7040 Canal Blvd.

La., New Orleans—Emanon Realty Co., Inc., capital \$20,000, chartered; Leonard Berger, 4525 S. Claiborne Ave.

Kan., Kansas City—E. B. Murray & Co., Inc., chartered; E. B. Murray, 1516 Federal Reserve Bank Bldg.

Mo., St. Louis—John J. Matthews Real Estate & Investment Co., incorporated; Michael Fleming, 7019 Southwest St.

Mo., Webb City—Todd Land Corp., capital \$75,000, incorporated; J. Frank Todd, N. J. Porter.

N. C., Raleigh—Milburnie Land Development Co., capital \$100,000, incorporated; Clarence Poe, Professional Bldg.

Okla., Guthrie—City votes Jan. 14 on \$13,000 bonds for athletic field and playground.

Okla., Tulsa—See Sewer Construction.

Tenn., Chattanooga—Monte Vista Land Co., capital \$25,000, incorporated; F. A. Seagle, 4701 Tenn. Ave.

Va., Charlottesville—Carlton, Inc., capital \$51,000, chartered; Donald G. Stevens.

Va., Norfolk—Alfred Corp. chartered; R. A. Walker, Edinburg Apt., Portsmouth.

Va., Tunstall—Northberry Farms Corp., incorporated; Moses S. Kincaid.

W. Va., Charleston—Capital City Co., incorporated; Charles M. Love, Kanawha Natl. Bank Bldg.

Lumber Enterprises

Ga., Valdosta—Jackson Bros. plan rebuilding burned lumber plant.

S. C., Otar—Salkehatchie Mfg. Co., capital \$15,000, incorporated; W. M. Kearse, Alice H. Kincaid; timber.

Va., Stonega—McCorkle Lumber Corp., S. B. McCorkle, V. Pres., Swords Creek, advises, acquired outright, 17,500,000 ft. virgin hardwoods from Virginia Coal & Iron Co.; moving band sawmill, Swords Creek to Stonega, where offices will be established after Feb. 1; all equipment on hand. (Recently incorrectly noted awarded contract to cut 16,500,000 ft., 1-9.)

Mining

Ala., Tuscaloosa—National Lime, Cement & By-products Corp., Schuyler L. Hoff, Sec., 310 Pearl St., Buffalo, New York, issuing \$250,000 7% cumulative preferred stock for building hydrate and oxide plant to produce 1000 bbl. lime daily; property located in Colbert County, 6 mi. west of here; Soule & Zepp, Inc., Consol. Engr., 507 N. Charles St., Baltimore, Md. 8-29

N. C., Bryson City—Fontana Mining Corp., P. B. Blakemore, Sec.-Treas., Isabella, Tenn., advises: "P. J. Burgess is not, and never has been employed by Fontana Mining Corp. in any capacity." Also, that there are no plans contemplated for erecting \$2,500,000 mining plant. (Recently incorrectly noted P. J. Burgess, Consol. Engr., 12-26)

S. C., Pacolet—R. E. Plymole, Clarendon, Va., acquired Pacolet rock quarries; plans resuming operation on larger scale in near future.

Miscellaneous Construction

La., New Orleans—Bd. of Levee Commsr. of Orleans Levee Dist., New Orleans Court Bldg., let contract to Orleans Dredging Co., Canal Bank Bldg., at \$1,956,208, for Lake Pontchartrain sea wall; W. R. Davey, Acting Ch. Engr.; E. C. Hyatt, Engr., in charge of work.

La., New Orleans—Bd. of State Engrs., New Orleans Court Bldg., has low bid from Woods Bros. Construction Co., Lincoln, Neb., at \$103,525, for 14 permeable crib elevation dykes, on \$103,525 for current retards on Sunflower-Nicholson Bend, Bossier Parish; involves 2050 lin. ft.; bid of \$103,522 on current retards to be recommended to Governor Long for acceptance.

Mo., Kansas City—U. S. Engr. Office, Postal Telegraph Bldg., opens bids Feb. 10 for constructing about 800 lin. ft. standard pile clump dikes, or alternatively 8000 lin. ft. standard retards, Missouri River, Leavenworth Bend, about 2.7 mi. from Leavenworth, Kans.

N. C., Greensboro—City, Luther E. Dempsey, Ch. of Sanitary Dept., opens bids Feb. 11 for incinerator, E. Market St.; call bids, for new plant, and for removal also of old incinerator on Bingham St.; addition to handle 5 tons in 10 house, giving incinerator total capacity of 125 tons; \$60,000. 12-26

Okla., Bartlesville—H. R. Blair, representing Frank H. Reed, Neosho, Mo., advises wading pool to be constructed here is one of 15 or 20 to be constructed in 1930; no contracts to be let; local labor to be employed in each instance. See Want Section—Miscellaneous.

Tex., Fort Worth—Kimbell Milling Co., 1800 S. Main St., let contract to Jones-Hettelsater Construction Co., Mutual Bldg., Kansas City, Mo., for \$250,000 grain elevator; 1,000,000 bu. capacity.

W. Va., Charleston—Union Soldiers and Sailors Memorial Comm. let contract to Stewart Granite Works, Mannington, for erecting monument on capitol grounds; Roy H. Stewart, Prop., Stewart Granite Works, Designer.

Miscellaneous Enterprises

Ala., Brewton—Brewton Creamery Co. move plant to Douglas Ave. and install new equipment.

Ala., Mobile—Beardslee Launch & Towing Co., St. Francis St., engaged in towing logs and lumber in Mobile River delta section, applied to Interstate Commerce Comm., Washington, for permission to establish barge line for transporting forest products, Service, Ala., to Mobile.

Ala., Tuscaloosa—Champion Fiber Co., Canton, N. C., advises regarding report would establish paper mill: "We have no definite plans for development at Tuscaloosa." 1-9

Ark., Jonesboro—Walnut Grove Dairy, capital \$50,000, incorporated; L. L. Court, F. G. Dumuth.

Ark., Pine Bluff—W. M. Wilks, of Webb Dry Cleaning Co., 611 Main St., plans \$50,000 to \$60,000 laundry before spring; operate as separate business from dry cleaning plant.

Fla., Cocoa—Dr. Counts Refrigerating Lotion, Inc., chartered; N. T. Counts, N. B. Butt; medical compound.

Fla., Hialeah—City negotiating with slaughter house and packing firm for establishing packing plant and slaughter house.

Fla., Hiaeach—Pennisula Iron & Steel Co., Inc., chartered; E. C. Marik, J. P. Grethen; engineering and contracting.

Fla., Jacksonville—Duval County Commsr. erect garage, blacksmith shop and laundry at county prison farm; material and labor to be furnished by county; \$10,000; J. C. Pritchard, Supt. of County.

Fla., Jacksonville—Stucco Products Co. of Florida, Inc., Carl M. Phil, Pres., Greenleaf & Crosby Bldg., manufacturer of paint and stucco products, acquired site, West Jacksonville, for plant.

Fla., Jacksonville—Greenleaf, Crosby & Co., 204 Laura St., (Jewelry), Jacksonville, reported merged with Van Cleef & Arpels, Inc., 671-5th St., New York, and Paris, France; Frank E. Karslen, Jr., president of New York firm, to head both companies.

Fla., Lake City—Clayton C. Codrington, DeLand, H. D. Harkreader and A. Bev Baker, both Palatka, acquired Lake City Reported.

Fla., Miami—Fashion Dry Cleaners Corp., capital \$30,000, incorporated; C. D. McConnell, 742 N. W. 2nd St.

Fla., Miami—Thompson Publishing Co., incorporated; J. K. Tilton, Olympia Bldg.

Fla., Miami—Next Mfg. Corp., incorporated; Joseph N. M. Keyzer, 557 N. W. 40th St.; manufacture wood, metals, glass, clay, and fibre products.

Fla., Miami—Atlantic Butchers Corp., incorporated; M. Rosen, Congress Bldg.

Fla., Tampa—Tampa Conveyor & Packing Equipment Co., incorporated; C. J. Hyer, Palma Ceia St.; mill supplies.

Fla., Williston—Leslie Engineering Corp., incorporated; L. E. Leslie, J. W. White.

Ga., Eatonton—Eatonton Creamery Co., Frank Newlander, Plant Mgr., enlarge plant.

Ga., Macon—Dixie Ice Cream Co., G. C. Amerson, 361 Cotton Ave., erect \$75,000 plant addition, 658 Arch St., by own forces; first unit, \$8000; private plans. 12-19

Ga., Millen—Foremost Dairy Products, Inc., 135 Riverside Ave., Jacksonville, Fla., acquired S. B. A. Wallace Farm; expend \$10,000 in few months establishing modern dairy.

Ga., Savannah—John R. Dekle, 24 E. 45th St., and D. Clark Abbott, 1131 E. 32nd St., acquired Star Laundry, Barnard St.; improve extensively in near future.

Ky., Louisville—Llewellyn Laundry, capital \$25,000, incorporated; H. C. Llewellyn, 2523 Tennyson St.

La., Crowley—James H. Skewes, publisher of Meridian (Miss.) Star, acquired Crowley Signal, daily and weekly newspaper; O. S. Priestly, Perry, Okla., now in active management.

La., Lafayette—D. D. Blue, DeRidder, and associates acquired Lafayette States Laundry, Lafayette and E. Convent St.; completed plans for new plant.

La., New Orleans—Rand Shoe Co., Inc., capital \$50,000, chartered; Ben Newman, 1101 Canal St.

La., New Orleans—Flintkote Co., Galvez & Poland Sts., let contract to O. M. Gwin Construction Co., Union Indemnity Bldg., for \$49,000 warehouse, Japonica St. between N. Galvez and N. Johnson St.; J. W. Billingsley, Archt., Interstate Bldg.

La., Ruston—North Louisiana Dairy Products, Inc., T. H. Mills, Pres., opens bids Jan. 20 for \$45,000 milk plant building; machinery and equipment to cost \$145,000; 1 and 2 story, brick, steel, rein. conc.; Douthitt Engineering Co., Engr., 100 W. Monroe St., Chicago, Ill.

Baltimore—Albert F. Goetze, Inc., 2401 Sinclair Lane (Meat Products, etc.); plans erecting addition to plant; 2 story, 150x50 ft.

Md., Baltimore—William J. B. Shanks, 793 W. Mulberry St., let contract to Chas. H. Henkel, 3740 Edmondson Ave., for addition to bottling plant; 2 story, 28x40 ft.; started construction; machinery on hand.

Md., Baltimore—B. V. D., Inc., being formed to hold stock of Atlas Underwear Co., Piqua, Ohio; Regatta Mfg. Co., Inc., Baltimore; B. V. D. Co., Inc., New York, and its subsidiaries; all manufacture underwear.

Md., Baltimore—Julien P. Friez & Sons, 4 N. Central Ave., subsidiary of Consolidated Instrument Co. of America, 41 E. 42nd St., New York, has plans complete for addition to plant to manufacture weather and airplane instruments; Edward H. Glidden, Jr., Archt., American Bldg.

Md., Baltimore—Baltimore Salesbook Co., 3132 Frederick Ave., erect \$15,000 plant, 3126 Frederick Ave.; 2 story, brick, steel; private plans.

Md., Midland—Ort Bros. Bakery, Inc., John L. Ort, Pres., let contract in February for \$45,000 bakery; 125x150 ft., brick, steel, hardwood and conc. floors, asphalt roof; let contract to Standard Oven Co., Oliver Bldg., Pittsburgh, Pa., for 4 brick ovens; move most of machinery from present plant; Brazelli & Anderson, Archts., 309 Fourth St., Pittsburgh, Pa.

Miss., Aberdeen—Aberdeen Coca-Cola Bottling Co., O. N. Hale, soon erect bottling plant; plans complete.

Miss., Gulfport—E. D. Entringer, Prop., Sunlite Bakery, acquired Tasty Pastry Bakery.

Miss., Vicksburg—Mississippi River Comm., 815 Olive St., St. Louis, Mo., definitely decided to establish hydraulic laboratory here, originally proposed for Memphis Dist.; to be under supervision of president of Mississippi River Comm. (See Memphis, Tenn., 1-9.)

Mo., Jefferson City—Capital Poultry Farms, incorporated; Otto C. Botz, Victor J. Miller.

Mo., Jefferson City—See Ice and Cold Storage Plants.

Mo., Kansas City—Unity Society of Practical Christianity, C. Fillmore, Sec., 917 Tracy Ave., has preliminary plans drawn for printing and stock room building; 2 and 3 story, stone; Boillot & Lauck, Archts., Orear-Leslie Bldg.

Mo., Kansas City—Aircraft Age, Inc., chartered; J. Frank Smith, 625 W. 59th Terrace; publishing, etc.

Mo., Kansas City—National Air Control Co., 300 Southwest Blvd., manufacturer of air conditioning and ventilating equipment, leased property, Guinotte Ave. and Vine St., for new plant unit.

Mo., Kansas City—Gate City Garment Co., Inc., capital \$25,000, chartered; L. E. Ballard, 18 W. 70th St.

Mo., Richmond—Lillard Creamery Co., H. G. Lillard, erecting plant addition; 28x46 ft.

Mo., Sedalia—Golden Rule Poultry Farms, Inc., capital \$50,000, chartered; Mrs. Carrie P. Bagby, Greenfield; George Bagby, 234 S. Kentucky St., Sedalia.

Mo., St. Louis—N. Nichans Plastering Co., capital \$50,000, incorporated; Raymond L. Ruch, 7201 Lindell Blvd.

Mo., St. Louis—Dreyer Belting Co., Inc., capital \$20,000, chartered; Herman Dreyer, 4622 Kingshighway, N. E.

Mo., St. Louis—E. J. Straus Radio Co., capital \$25,000, incorporated; E. J. Straus, 5561 Waterman St.

Mo., St. Louis—Gross-Fishgall Dress Mfg. Co., capital \$300,000, incorporated; Jacob Fishgall, 2307 Kingsway St.

Mo., St. Louis—National Dairy Products Corp., 120 Broadway, New York, acquired Highland Dairy Farms Co., 20th & Ridge Sts.

N. C., Asheville—Skyland Farms, operated by Suburban Poultry Homes, Inc., K. S. Clark, Pres., 75 N. Market St., started constructing modern poultry farm, Sweeten Creek Rd.; mammoth central incubator and brooder plants well under way, being erected by J. M. Geary, 35 N. French Broad Ave.; erect 20 colony houses, with conc. foundations and wood upper structure; 5 trapnested laying houses, with conc. foundations and floors, and wood upper structure; dwellings completely equipped with electric refrigeration, automatic heat, radio, modern furnishings, etc.; will operate packing and shipping plant, first building now under construction; erect central pigeon and squab plant costing about \$12,000, designed by Samuel Fung; 500 acres acquired and 1600 acres under option; plans erecting another central hatchery unit early in spring; fol-

lowing have sub-contracts: 52,000-egg incubator, Smith Incubator Co., W. 121st St. and Elmwood St., Cleveland, Ohio; 6 battery brooder houses, each with Browers battery brooder, Browers Mfg. Co., Muncie, Ind.; elec. work, Ward Electric Co., 14 Church St.; fencing and building material supplied in part by W. H. Westall & Co., 20 Spruce St., both Asheville; Douglas D. Ellington, Archt. for entire plan, Flat Iron Bldg., Asheville.

N. C., Asheville—Buncombe Tobacco Warehouse, Inc., capital \$100,000, chartered; Archibald Nichols, 333 Montford Ave.

N. C., Belton—Sewee Mfg. Co., Malcolm Cox, manufacturing children's dresses, plans erecting new building with larger operating quarters in near future; install 100 machines; begin construction Mar. 1.

N. C., Canton—Champion Fibre Co., Reuben B. Robertson, Pres., advises: "We have no expansion program other than regular maintenance conducted by our own engineers and mechanics."

N. C., Rutherfordton—M. L. Treadwell, care Oakland Consolidated School, interested in establishing pasteurizing plant.

N. C., Statesville—Ervin-West Construction Co., capital \$50,000, incorporated; P. S. West.

N. C., Wilmington—Sexton Mfg. Co., Fairfield, Ill., athletic underwear manufacturer, probably erect plant here in 1930.

Okl., Clinton—City plans expending \$25,000 for fire-fighting equipment.

Okl., Oklahoma City—Cox Fence Co., capital \$75,500, incorporated; Mrs. B. H. Cox, Duncan; F. W. Burkett, 1221 W. 47th St., Oklahoma City.

Okl., Oklahoma City—International Glove Co., St. Louis, Mo., G. H. Brodt, Local Mgr., Wells Roberts Hotel, erect \$100,000 glove plant, B St.

Okl., Tulsa—City votes Feb. 4 on \$6,230,000 bonds, \$40,000 for traffic signals, \$450,000 for fire stations, equipment and fire signal system.

Okl., Tulsa—Maxwell Florists Co., capital \$200,000, incorporated; F. A. Young, 249 E. 27th St.

S. C., Abbeville—Calco Mfg. Co., garment manufacturer, installing 15 additional sewing machines.

S. C., Greenville—Coca-Cola Bottling Co., C. H. Yates, Sec., and Treas., 537 S. Main St., soon calls for \$60,000 bottling plant; 1 story and basement, rein. conc., brick, stone trim, steel sash and doors, built-up roof, standard plans; Pringle & Smith, Archt., Norris Bldg., Atlanta, Ga.

S. C., Newberry—George Counts and associates, Greenville, soon establish bakery, probably in Copeland Bldg., Caldwell and Friend St.

Tenn., Chattanooga—Carter Bros., Manufacturing Road, capital \$400,000, incorporated; A. J. Carter; manufacture "Retrac" rugs, bath mats, mattresses, etc.

Tenn., Jackson—Gulf States Creosoting Co., W. E. Eddins, Pres., Hattiesburg, Miss., erect creosoting plant; H. G. Fritchle, Consil. Engr., Slidell, La., have charge of construction.

Tenn., Memphis—National Automobile & Casualty Insurance Co., J. T. Russell, Pres., 205 S. Belvedere St., increasing capital, \$200,000 to \$1,000,000.

Tenn., Watertown—Stephens-Huffines Co. let contract to Independent Construction Co. for rebuilding shirt plant; install 150 modern machines.

Tex., Alice—T. R. Bell acquired Alice Laundry; plans additions and improvements.

Tex., Beaumont—Shepperd Laundries Co., 125 Liberty St., increasing capital stock, \$200,000 to \$450,000.

Tex., Dallas—Crystal Carbonic Laboratory, William N. Cochran, V.-Pres. and Gen. Mgr., subsidiary of Coca-Cola Co., 2019 N. Lamar St., acquired site, Alamo St. near Wichita St. North Dallas, for plant, to be in operation in 30 days, to manufacture and compress carbonic gas, used in carbonated beverages.

Tex., Dallas—Printing—Harben-Spotts Co., S. W. Life Bldg., capital \$40,000, incorporated; Sam P. Harben.

Tex., Denison—Kraft-Phenix Cheese Corp., W. E. Guest, 400 Rush St., Chicago, Ill., advises project here is remodeling job and extending present facilities; changes by company's construction department with local labor and material.

Tex., El Paso—American Smelting & Refining Co., Equitable Bldg., New York, Brent N. Richard, Local Mgr., has tentative plans to expend approx. \$100,000 for improving plant in 1930; improve methods of handling

minerals and metallurgy of ores and metals; improve sampling and crushing mill, install Dross reverberatory furnace and Sinter crushing plant.

Tex., Fort Worth—Acme Printing & Multi-graphing Co., capital \$20,000, incorporated; A. L. Bills, 4717 Pershing St.

Tex., Galveston—First Texas Prudential Insurance Co., 801 22nd St., increased capital, \$10,000 to \$200,000.

Tex., Harrisburg—Texas Chemical Co., S. Peiser, expend \$500,000 for improvements to plant; company manufactures bone black used in refining sugar, sulphuric acid for oil refineries, etc.

Tex., Hico—R. L. Holford, Garland, acquired Hico News Review, weekly newspaper.

Tex., Houston—Building—Belmain Co., capital \$25,000, incorporated; A. B. Cameron, Petroleum Bldg.

Tex., Kingsville—Dairy Products Co. increasing capital, \$20,000 to \$200,000.

Tex., La Porte—Pfeiffer Electric Co., A. W. Pfeiffer and George Counts, drawing plans for 20-ft. building, Main St., with brick veneer front; operates general electric supply and service business with electric shoe shop.

Tex., Newgulf—Texas Gulf Sulphur Co., 41 E. 42nd St., New York, let contract to J. G. White Engineering Co., 43 Exch. Pl., New York, for installing 5 additional boilers and erecting new smoke stacks.

Va., Danville—Velveteen Mfg. Co., Inc., capital \$25,000, chartered; Thomas H. Wall, 212-A Jefferson Ave.; hair dressings and cosmetics.

Va., Richmond—Longdale Laboratories, Inc., capital \$25,000, chartered; Harry N. Wingfield, Jr., 622 W. Graham Rd.; chemical laboratories.

Va., Richmond—Wilson Paper Box Co., Thomas B. Bowles, Pres., 2217 E. Franklin St., increasing capital stock, \$25,000 to \$75,000.

Va., Richmond—Charles H. Phillips & Co., Inc., capital \$15,000, incorporated; Charles H. Phillips, State & City Bank Bldg.; engineering and contracting.

Va., Richmond—Dauch Paper Co., Sandusky, Ohio, acquired plant of David M. Lea & Co., box manufacturer.

W. Va., South Charleston, Charleston—Westvaco Chlorine Products Co., 8th Ave., and associated interests, reported, acquiring number of lots; subsidiary company to erect \$1,000,000 plant and drill salt wells to produce salt brine to be used in manufacturing products in Westvaco plant; W. B. Thom, Pres., 415 Lexington Ave., New York, advises: "No subsidiary of ours has purchased any real estate or has any plans for constructing a salt plant, nor have we come to any definite conclusion in regard to our 1930 expansion."

Motor Bus Lines and Terminals

Fla., Sebring—Rogers Taxi Co., incorporated; W. H. Rogers.

Mo., Kansas City—Kansas City Public Service Co. acquired Yellow Cab Co., 207 W. 14th St., subject to common stockholders of cab company.

Mo., Waverly—Sedalia-Marshall-Boonville Motor Bus Line, T. S. Delph and R. L. Sharp, Sedalia, authorized by Public Service Comm., Jefferson City, to extend line, Waverly via Dover to Lexington, Lafayette County, over State Hwy. No. 24.

Okl., Tulsa—Pickwick Corp., 500 S. Los Angeles St., Los Angeles, Calif., closed deal for erecting 200-room hotel terminal, costing \$1,000,000 to be completed in 1930.

Tenn., Nashville—Nashville Union Bus Terminal, Inc., C. R. Quarles, Pres., 312 Harvard Ave., let contract to J. B. Regen, 117 5th Ave., N., for bus terminal; Marr & Holman, Archt., Stahlman Bldg.

Tex., Sherman—Dixie Motor Coach Corp., A. T. Barrett, Pres., 701 Jackson St., Dallas, expend over \$45,000 early in 1930 for new equipment for lines; expend \$10,000 for terminal here.

Railways

D. C., Washington—Southern Ry. Co., C. R. Craig, Gen. Pur. Agt., purchased 23 baggage-mail cars from Bethlehem Steel Co., Bethlehem, Pa.

Fla., Daytona Beach—Bridge Corp. of Port Orange, incorporated; H. M. Wallis, Lydia W. Hanford; operating railroads and tramways.

Ga., Augusta—Atlantic Coast Line R. R., G. B. Elliott, Pres., Wilmington, N. C., leased Charleston & Western Carolina Ry. Co., subject to approval of Interstate Commerce Comm., Washington; plans improvements.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Ky., Millard—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., advises regarding report that Langhorne & Langhorne, 1st Huntington Natl. Bank Bldg., Huntington, W. Va., have contract for constructing Levisa River R. R.; contract not let; bids have not been requested.

Mo., St. Louis—Missouri Pacific R. R. Co., W. A. Hopkins, Gen. Pur. Agt., ordered 4 dining and parlor cars from American Car & Foundry Co., 30 Church St., New York; 5 club cars, Pullman Car & Mfg. Corp., Chicago, Ill.

Texas—Texas Mexican Ry. Co., M. T. Cogley, Pres., Laredo, authorized by Interstate Commerce Comm., Washington, to operate line of San Diego & Gulf Ry., Houston, in Duval County.

Tex., Abilene—Roscoe, Snyder & Pacific Co., E. S. Hughes, Pres., and Gen. Mgr., increasing capital, \$200,000 to \$600,000.

Tex., Houston—C. S. Kirkpatrick, Ch. Engr., International R. R. Co., advises have not received authority to construct 1-mi. line and contract not let. 1-9

Tex., Nacogdoches—R. W. Barnes, Ch. Engr., Southern Pacific Lines in Texas and Louisiana, Houston, advises have no immediate work in prospect on Houston East & West Texas Ry. Co., a subsidiary, involving lowering grades; making grade reduction studies, but work plans involve very much less than \$1,000,000. 1-2

Va., Roanoke—Norfolk & Western Ry. Co., C. Cocke, Pur. Agt., ordered 500 tons steel, including plates and bars, from Jones & Laughlin Steel Corp., Ross St., Pittsburgh, Pa.

Railway Stations, Sheds, Etc.

Tex., Houston—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, Mo., let contract to Manning, Maxwell & Moore, Inc., Union Natl. Bank Bldg., for Putnam 54-in. heavy-duty motor-driven lathe for shops.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm., receives bids Jan. 10 for grading, granite curbing, gutters, sidewalks, 2½-in. asphalt on 6-in. conc. paving, 4 blocks on Twenty-second St.; cost \$41,350; grading, 7-in. conc. paving, Seventh Alley; A. J. Hawkins, City Engr.

Ala., Mobile—Mobile County Bd. of Revenue and Road Comms., Arthur D. Davis, Pres., plans expending during 1930 \$5,275,000 for public improvements; expend about \$1,000,000 for bridge connecting Dauphin Island with mainland; \$300,000, secondary roads.

Ala., Tuscaloosa—State Highway Comm., Montgomery, may receive bids soon for 23 mi. conc. State Route No. 7, Tuscaloosa County, Tuscaloosa-Birmingham Highway. 12-26

Arkansas—State Highway Comm., Little Rock, receives bids Jan. 21 for 4 roads and 2 bridges; Calhoun County—10 mi. grading, draining Hampton-Calton road, State Highway No. 115, from intersection Highways No. 4 and 115, in city of Hampton, to Ouachita River bottoms, 103,392 cu. yd. excavation and borrow, 56,329 lb. rein. steel; Union and Calhoun Counties—5 mi. grading, draining Calton-Hampton road, State Highway No. 115, from point west of Calton to Bangs Slough, 53,961 cu. yd. excavation, 1430 lb. rein. steel; Union County—4 mi. grading, Strong-Crossett road, State Highway No. 7, from point east of Strong to Ouachita River Toll Bridge, 1,286,371 cu. yd. earth embankment; Ashley County—2½ mi. grading, draining Crossett-Ouachita River road, State Highway No. 2, from point east of Felsen-enthal Bridge, under construction, over Ouachita River to bridge, 337,637 cu. yd. excavation and borrow, 15,084 lb. rein. steel; Ouachita County—2 rein. conc. and struct. steel bridges and 174 lin. ft. earth embankment approaches. Smackover-Camden road, State Highway No. 167: One 202-ft. long, over The Bayou, 80-ft. steel pony truss, with rein. conc. deck girder approaches; one 512-ft. long, of rein. conc. deck girder spans, over Cotton Belt R. R. tracks; both south of Camden, 14,616 cu. yd. excavation and borrow, 244,432 lb. rein. steel, 56,945 lb. struct. steel in beam bridges; C. S. Christian, State Highway Engr.

Fla., Fort Pierce—St. Lucie County Comms., plan improving causeway-beach road.

Fla., Milton—Santa Rosa County plans expending \$100,000 for 18 mi. hard surface Peninsular road, connecting with Santa Rosa end of Pensacola Bay Bridge, under construction. See Financial News Columns.

Fla., Pensacola—City Comms., plan receiving bids late in Jan. for about \$150,000 street paving, conc. and other types; Adrian Langford, Commr. of Streets and Public Works.

Fla., Tampa—City, D. B. McKay, Mayor, considering widening Bayshore Blvd., Magnolia to Rome Ave.; cost about \$150,000; R. H. Cason, City Engr.

Ga., Rome—Floyd County plans paved highway to Cave Spring as first section of paved road from Rome to Birmingham via Gadsden.

Ga., Rossville—War Dept., Washington, D. C., will let contract at once for McFarland Gap Dr. or Valley road, in North Carolina; 18-ft. conc. road from intersections of Chickamauga Ave. and McFarland Ave.; Rossville to north line of Chickamauga Park; eliminate old "Double S" curve and several others; work under direction of Constructing Quarter-master; \$60,000 appropriation.

Ky., Ashland—City Council considering widening West Winchester Ave. from Sixth to Second St.; total cost about \$20,000.

Ky., Hopkinsville—State Highway Comm., Frankfort, plans road from Hopkinsville, Christian County, to Tennessee line beyond Lafayette; plans letting contract by Apr. for Donelson Trail, from Hopkinsville to Tennessee line; H. D. Palmore, State Highway Engr.

Louisiana—Louisiana Highway Comm., Baton Rouge, plans expending about \$28,000,000, during 1930, for highways, bridges and maintenance; \$25,000,000 for 1,300 mi. conc. roads, graveled and paved roads, and bridges; \$3,000,000 for maintenance; H. B. Henderlite, State Highway Engr.

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Feb. 25 for road and bridge approach; Caldwell Parish—6 mi. gravel, Columbia-Chatham Highway; Orleans Parish—south approaches to Chef Menteur Bridge; H. B. Henderlite, State Highway Engr. 1-9

La., Alexandria—City Council receives bids Jan. 20 to pave Chester St.; resurface Thirteenth St. with rock asphalt; pave with rein. conc. Thornton Court, Oxford and Myrtle St.; sidewalks and curbs on Florence, Cook, Beech and Harris Ave.; I. W. Sylvester, City Engr.

La., Bastrop—Morehouse Parish Police Jury plans expending \$165,000 for several new roads and 4 bridges over Bayou Bartholomew in Road and Bridge Dist. No. 4. See Financial News Columns.

La., Colfax—Louisiana Highway Comm., Baton Rouge, receives bids Feb. 25 for 15 mi. conc., Colfax-Alexandria Highway, Grant Parish; H. B. Henderlite, State Highway Engr.

La., Jena—Town, R. W. Stephenson, Clk., rejected bids for street paving; Chas. D. Evans Consult. Engr., 114 Levy Bldg., Shreveport, lately noted bids Jan. 7.

La., Lake Charles—Louisiana Highway Comm., Baton Rouge, receives bids Jan. 21 for 3.2 mi. gravel surface, Route 7, Calcasieu Parish; H. B. Henderlite, State Highway Engr.

La., New Orleans—City plans paving Franklin Ave., from Rampart to Dreux and graveling to new lakefront development at Hibernia Ave.; Bryson Vallas, City Engr.

La., Oberlin—Louisiana Highway Comm., Baton Rouge, receives bids Feb. 25 for 7 mi. conc., Route 24, Oberlin-Kinder Highway, Allen Parish; H. B. Henderlite, State Highway Engr. 12-5

Miss., Aberdeen—City, Mayor and Bd. of Aldermen, plans paving Washington St. with one course 6-in. conc., including curb, gutter, storm sewers and water drains, Meridian to Maple St.

Miss., Bay St. Louis—City, Chas. Traub, Sr., Mayor, considering paving all main streets.

Miss., Gulfport—City Comms. plan paving Twenty-fifth St., from L. & N. R. R. to Nineteenth St.

Miss., Hazlehurst—City, Bd. of Aldermen, considering paving Damascus, Georgetown, Lowe and Gallatin St., East Railroad Ave.; cost about \$90,000; receive bids soon. 12-19

Missouri—State Highway Dept., Jefferson City, plans expending \$3,750,000, in 1930, for roads in Southeast Missouri, including Highway No. 61, from present conc. at Ancell to Sikeston, costing about \$1,000,000; T. H. Cutler, State Highway Engr.

Missouri—State Highway Comm., Jefferson City, plans improving 8 roads in Division No. 2: Adair County—gravel 7 mi. Route No. 6, Kirksville to Novinger; complete 1½ mi. Route 6, from Brashear to Knox County line; \$116,000 available; Chariton County—complete 13 mi. grading, graveling, Route 5, from Route 24, south, to county line north of Glasgow, \$72,000 available; Livingston County—12 mi. conc. slab, Route 65, south of Chillicothe, and Route 36 from Chillicothe to Linn County line; Putnam County—complete grading and gravel 4 mi. road from Mercer County line to Lucerne; gravel 1 mi. from end of gravel east of Unionville to Schuyler County line; Randolph County—complete Route 24, from Huntsville to Clifton Hill, grade and gravel road from Clifton Hill west to county line; Schuyler County—complete grading, and gravel Route 4 from Lancaster, west; Sullivan County—complete Route 5, north and south of Milan and through Milan; grade Route 6 from Route 5 west to Reger and from Greene City east to Adair County line; \$352,000 available; T. H. Cutler, State Highway Engr.

Mo., Ava—State Highway Dept., Jefferson City, probably let contract in Mar. for road and Bryant Bridge on Route No. 14, east from Ava, Douglas County, connecting with Cheney road, east of Bryant Creek; T. H. Cutler, State Highway Engr.

Mo., Carthage—State Highway Dept., Jefferson City, plans letting contract early in 1930 for 1 mi. highway connecting Highways No. 66 and 71 at Kendricktown, north of Carthage; George L. Clark, Div. Engr., Joplin; T. H. Cutler, State Highway Engr.

Mo., Lebanon—State Highway Dept., Jefferson City, probably let contract in Feb. to cone. Highway No. 66 from Lebanon, Laclede County to Rolla, Phelps County; T. H. Cutler, State Highway Engr.

Mo., Marshall—State Highway Dept., Jefferson City, plans graveling Route 41, Saline County, between Miami and Marshall, and between Marshall and Arrow Rock.

Mo., St. Louis—City, Bd. of Public Service, receives bids Jan. 28 to improve alleys and improve and rebuild streets.

N. C., Goldsboro—State Highway Comm., Raleigh, probably let contract in Jan., for 1½ mi. paving, road from Goldsboro to Asylum Station, beyond State Hospital for Colored Insane. 11-7

N. C., Greensboro—City, E. G. Sherrill, Clk., receives bids Jan. 21 for about 3200 sq. yd. sidewalk paving, etc., on 4 streets, avenues, drives, etc. 1-9

Oklahoma—State Highway Comm., Oklahoma City, receives bids Jan. 20 for road and 3 bridges: Kingfisher County—9 mi. grading, draining, U. S. Highway No. 81, Kingfisher to Okarche; Logan County—bridge on State Highway No. 33 west of Guthrie; Washita County—over Washita River east of Cordell, State Highway No. 41; Pushmataha County—bridge over Walnut Creek, State Highway No. 10; A. R. Losh, State Highway Engr.

Oklahoma—State Highway Comm., Oklahoma City, plans improving 2 roads, 5.6 mi. pavement, State Highway No. 11, southeast from Avant, connecting with hard surface road north of Skiatook; 26 mi. grading, draining, State Highway No. 25, Pawhuska to Bartlesville; A. R. Losh, State Highway Engr.

Oklahoma—Arapaho—Custer County plans about \$900,000 paving during 1930; tentative plans for paving Highway No. 68 east and west across county; 4 mi. Highway north and south; improve other sections of state highway in county; build bridge across South Canadian River near Thomas; 20 blocks paving in Clint.

Oklahoma—Muskeogee—State Highway Comm., Oklahoma City, will grade and drain at once, 4 mi. Highway No. 27, east of Arkansas River Bridge to Fort Gibson; plans beginning about middle of month to grade and drain 6 mi. Highway No. 73, from end of present paving to Muskogee; T. P. Clonts, Highway Div. Engr.

Oklahoma—Oklahoma City—City, E. M. Fry, Mgr., plans paving Western Ave., Thirty-sixth to Fiftieth St.; Twenty-ninth St., Pasco to Sharlot Ave.; W. W. Small, City Engr. See Financial News Columns.

Oklahoma—Tulsa—City, Dan W. Patton, Mayor, plans expending \$1,150,000 for street improvements; \$725,000, remodel present bridge on Eleventh St. and erect second bridge near Twenty-first St.; \$150,000, for overpass on present bridge; K. R. Teis, City Engr. See Financial News Columns. 1-2

S. C., Columbia—Richland County Comms., Andrew Patterson, County Supvr., plan receiving bids for 3 roads; 5 mi. Old

Winnsboro; 3 mi. Asylum; 2 mi. Leesburg roads; surface treatment, conc., etc.; J. C. Covington and Marvin Porter, Engrs.

Tennessee—Dept. of Highways and Public Works, Nashville, receives bids Jan. 31 for 5 roads, 9 bridges and approaches: Campbell County—347 mi. grading, draining approaches to underpass of L. & N. R. R. on State Highway No. 9, Kilsyth to Duff; Washington-Sullivan Counties—8,717 mi. grading, draining, State Highway No. 34, Johnson City to Bluff City; Hamilton County—2,566 mi. grading, draining, State Highway No. 38, between Highway No. 2 and Georgia State line; Stewart County—2,199 mi. grading, draining Highway No. 76, approaches to bridges at Dover; Perry County—6,472 mi. grading, draining, Highway No. 100, between Linden and Hickman County line; Hawkins County—2 conc. deck girder bridges and approaches over Cloud Creek and Big Creek on .332 mi. State Highway No. 1, near Rogersville; Cheatham County—approach to bridge over Cumberland River, Ashland City, on .284 mi. State Highway No. 49; Jefferson County—conc. overhead crossing of Southern R. R. and approaches on .373 mi. State Highway No. 34, near Jefferson City; Gibson County—conc. overhead crossing of I. C. R. R. and approaches on .525 mi. State Highway No. 76, Milan; Hamilton County—one slab bridge over 20-ft. span, Highway No. 38; Houston County—creosoted timber overhead crossing of L. & N. R. R. and approaches on .530 mi. State Highway No. 49, near Erin; Rutherford County—approaches to bridge over Stone River, on .254 mi. State Highway No. 96, Franklin to Murfreesboro; Crockett County—conc. overhead crossing of L. & N. R. R. and approaches on .538 mi. State Highway No. 76, near Gadsden; T. E. McEwen, State Highway Engr.

Tennessee—Dept. of Highways and Public Works, Nashville, plans letting contracts, totaling \$500,000, in Feb. in Hamilton County: 27 mi. grading, draining, Chattanooga-Decatur road; widen Wauhatchie Pike, from foot of Lookout Mountain to intersection of Nashville Highway No. 2 and Chattanooga-Birmingham road; 3½ mi. grading, draining, surfacing, Birmingham-Chattanooga Route 38, from intersection of Nashville Highway No. 2 to Georgia State line; resurface with conc. asphalt, 3 mi. East Chattanooga-Silverdale road; 4 mi. Ringgold road; probably bridge over South Chickamauga Creek.

Tennessee—Dept. of Highways and Public Works, Nashville, plans improving 4 roads, in 1930: Highway from Johnson City to Limestone; highway from Virginia State line to Johnson City; resurface present road from Kingsport to Jonesboro; resurface section from Blountville to Thomas' Bridge; T. E. McEwen, State Highway Engr.

Tenn., Bristol—City, Bd. of Mayor and Comms., W. K. Carson, Treas., considering plans to widen Ninth St.

Tenn., Greeneville—Greene County plans expending during 1930, \$83,000 for road improvement.

Tenn., Johnson City—City, W. B. Ellison, Mayor, plans widening West Market St.: cost \$18,000; expending \$100,000 during 1930 for street paving: \$7,000, opening and extending streets.

Tenn., Knoxville—City, George Dempster, Mgr., receives bids Jan. 24 for 2,700 sq. yd. sheet asphalt resurfacing; W. H. Mynatt, Dir. of Public Service.

Tenn., Linden—Dept. of Highways and Public Works, Nashville, receives bids Jan. 31 for 6.47 mi. grading, draining, State Highway No. 100, Linden to Hickman County line; T. E. McEwen, State Highway Engr.

Tenn., Madisonville—Monroe County Quarterly Court considering road between Niles Ferry and Madisonville, via Vonore; eliminate Vonore-McCroskey highway crossing.

Tenn., Maryville—Dept. of Highways and Public Works, Nashville, plans road from Maryville to point connecting with road leading to new bridge at Niles Ferry; plans starting work in spring; build highway from Maryville to Sevierville, this year.

Tenn., Nashville—Dept. of Highways and Public Works, Nashville, and Davidson County Highway Comm., plan improving Harding road, and laying 24-ft. roadway on north side of street car tracks; city will co-operate in paving street from Thirty-first Ave. to Park Circle.

Texas—State Highway Comm., Austin, receives bids about Feb. or Mar. for 5 roads. Upshur County—2.2 mi. double bit. surface treatment, Highway No. 63, north from Gregg County line; D. L. Hogan, Div. Engr.; Wood County—1.8 mi. double bit. surface, Highway No. 15, east from Smith County line, estimated cost \$13,000; D. L. Hogan,

Div. Engr., Tyler; Taylor County—2943 mi. single bit. surface treatment, Highway No. 7, south from intersection of Highways No. 4 and 7; .624 mi. single bit. surface treatment, Highway No. 4, point south of Abilene, south; W. J. Van London, Div. Engr.; Eastland County—20 mi. rebuilding brick pavement and bit. filler, Highway No. 1, Cisco to Ranger, estimated cost \$24,000; W. J. Van London, Div. Engr., Abilene; Freestone County—3,068 mi. double bit. surface treatment, Highway No. 43, Trinity River to end of conc. pavement; E. C. Woodward, Div. Engr., Fairfield; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, receives bids about Mar. for: Red River County—double bit. surface treatment, Highway No. 5, point 3 mi. from Clarksville to point west of Bagwell, estimated cost \$18,875; J. D. Metcalfe, Div. Engr., Paris; Titus County—8.8 mi. double bit. surface treatment, Highway No. 1, point west of Mt. Pleasant at Franklin County line, estimated cost \$25,555; Tarrant County—7.28 mi. asphaltic seal coat, Highway No. 1, west from Fort Worth, estimated cost \$8,030; John Mead, Div. Engr.; Schleicher County—4 mi. asphaltic seal coat, Highway No. 30, El Dorado, south; A. F. Moursand, Div. Engr., San Angelo; Williamson County—7.5 mi. single bit. surface treatment, and re-building base, Highway No. 74, Florence, west, estimated cost \$29,800; D. E. H. Manigault, Div. Engr., Austin; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, receives bids about Feb. or Mar. for 3 roads: Bowie and Cass Counties—10.21 mi. caliche oil mixture surface, Highway No. 8, Maud to Douglasville, estimated cost \$66,000; J. D. Metcalfe, Div. Engr., Paris; Collin County—4.15 mi. double bit. surface treatment, Highway No. 39, Hunt County line to Farmersville, estimated cost \$11,660; Clifton Rice, Div. Engr., Dallas; Johnson County—7 mi. double bit. surface treatment, Highway No. 2-A, from Junction with Highway No. 2; John Mead, Div. Engr., Fort Worth; Gibb Gilchrist, State Highway Engr., Austin.

Texas—State Highway Comm., Austin, will let contract for 4 mi. Highway No. 139 as part of direct line from Palestine, Anderson County to Corsicana, Navarro County, and part of through highway from coast to Fort Worth; Gibb Gilchrist, State Highway Engr.

Tex., Austin—Travis County, George Matthews, County Judge, plans rebuilding base, and single bit. surface treatment, 4 mi. Highway No. 29, Williamson County line to south end of present pavement, cost \$18,600; D. E. H. Manigault, Div. Engr.

Tex., Brownwood—Brown County, E. M. Davis, Judge, plans 14,707 mi. grading, draining, Highway No. 129, from Sta. 538 plus 44.6, to Eastland County line; Leo Ehinger, Res. Engr.

Tex., Crockett—Houston County plans expending \$1,450,000 for roads. See Financial News Columns.

Tex., Dallas—Dallas County Comms., Court, F. H. Alexander, Judge, plans 10 roads and 3 bridges: Northwest Highway; Scyene road; Pleasant Valley road; Corinth St. Trinity Heights road connection; Corinth St. bridge and road; Forest Ave. connection, North and South road; Kessler Outer Blvd. and road; Irving-Fort Worth bridge and road; Turtle Creek bridge and road; Commerce St. bridge and road; Rollins & Clinger, Supvg. Engrs.; plan selling bonds.

Tex., Fort Worth—City Council, O. E. Carr, City Mgr., considering paving Richmond St., Mississippi to Yuma, and East Arlington, Evans to New York Ave.; receives bids to pave Illinois from Rosedale to White; D. L. Lewis, City Engr.

Tex., Gainesville—State Highway Dept., Austin, and Cooke County plan improving 3 roads: Grade, drain, etc., Highway No. 5, east and west through county; pave with conc. ¼ mi. highway through Timber Creek bottoms, west of Collinsville, Precinct No. 2; gravel 3 mi. Myra-Hood Highway, from Myra to completed bridge over Elm Creek, Precinct No. 3; Gibb Gilchrist, State Highway Engr.

Tex., Galveston—Galveston County Comrs. Court, C. C. Washington, County Engr., receives bids Jan. 21 for roadway connecting ferry land at Fort Point to East Blvd.

Tex., Goose Creek—City preparing plans for paving Commerce and Pearce St., with 12,000 sq. yd. rein. conc. or conc. with asphalt, 40 and 50-ft. wide; J. T. Roberts, City Engr.

Tex., Houston—City, W. E. Monteith, Mayor, receives bids Jan. 22 to pave Harris-

burg Blvd., from Brays Bayou to H. B. & T. tracks, cost about \$300,000; pave Dart St., Houston Ave. to Elder St., cost about \$50,000; W. L. Shaw, City Engr.

Tex., Houston—City, W. E. Monteith, Mayor, received low bid from J. M. Griswold's Sons, 2310 Wichita St., \$16,645, to gravel 6 streets, totaling 2 mi., including Luzon, Driscoll; H. L. Shaw, City Engr.

Tex., Houston—City, W. E. Monteith, Mayor, considering widening Buffalo Drive 5 to 10 ft. on both sides, and lay additional course of inverted penetration paving; H. L. Shaw, City Engr.

Tex., La Grange—Fayette County, Theo. Lueders, Judge, plans 4,582 mi. grading, draining, Highway No. 71, La Grange to Federal Aid Project No. 417-B; R. E. Schiller, Res. Engr.

Tex., Mount Pleasant—Titus County will lay 6-in. coat of gravel on 6 mi. Highway No. 1; later will lay 2-coat topping of asphalt and washed gravel; C. E. Smith, Foreman.

Tex., Quitman—Wood County, N. E. Seay, Judge, plans 9,834 mi. grading, draining, Highway No. 37, south from Winnsboro; W. N. Christian, Res. Engr., Winnsboro.

Tex., San Antonio—City Comm., C. W. Chambers, Mayor, receives bids Jan. 20 for paving sections of Sheraton, Morningside Drives, Ridgemont, Wickham Rise and Wiltshire Ave., Auburn Place; I. Ewig, City Engr.

Tex., Victoria—Victoria County, J. J. Woodhouse, County Judge, completed plans for paving with conc., first section of Highway No. 29, Middlebuster Highway; preparing plans for first section of Highway No. 113.

Virginia—State Highway Comm., Richmond, receives bids Jan. 28 for 5 roads and 5 bridges: Alleghany County—1.5 mi. macad. Route No. 14, from point west of Longdale Furnace, 16,517 sq. yd. macad., 31,945 cu. yd. excavation, 13,442 lb. rein. steel, also 4 bridges over 20-ft. spans, 78,255 lb. rein. steel; Rappahannock County—4.4 mi. macad. Route 21, from Culpeper County line, 46,810 sq. yd. paving 36,186 cu. yd. excavation; Washington County—1.6 mi. macad., Route 10, from east county line of Bristol, 19,621 sq. yd. macad.; Richmond County—1 mi. grade drain, Route 37, from point east of Totuskey Creek, 16,438 cu. yd. excavation; Campbell County—1 mi. grade drain, Route 18, from Brookneal, Va., Depot, 84,491 cu. yd. excavation, 10,392 lb. rein. steel; Roanoke County—109-ft. bridge, Route 10, over Tinkers Creek; C. S. Mullen, Ch. Engr.

Virginia—State Highway Comm., Richmond, plans expending, during 1930, \$250,000 for road building on Valley Pike south of Harrisonburg, and on Rawley Springs Pike, across Shenandoah Mountain to Pendleton County, W. Va.

Va., Norfolk—City, W. H. Taylor, 3rd, Dir. of Public Works, receives bids soon to repave Granby St., Main St. to Brambleton Ave., with durax granite blocks on present conc. foundation; city council appropriated \$49,000 toward construction.

Va., Roanoke—City, C. C. Page, Commr., plans hard surfacing Peace St. at new underpass of Seaboard Air Line R. R.

West Virginia—Road—State, James Conley, Governor, Charleston, reported, will advertise within few days, for sale of \$5,000,000 bonds.

Contracts Awarded

Ala., Birmingham—City Comm. let contracts totaling \$64,198, to pave 10 roads, streets, alleys, avenues, etc.: Morgan-Hill Paving Co., Woodward Bldg.; Reliance Concrete Co.; Southern Roads Co., Pioneer Bldg.; Independent Paving Co., 3828 First Ave.; H. N. Bowdry, Martin Bldg.; for sewers in North Eighty-first St., and in Inglenook, C. M. Burkhalter; A. J. Hawkins, City Engr.

Fla., Miami—Dade County Comms., Hugh Peters, Chmn., let contract to Burr Construction Co., 5424 N. Miami Ave., Miami, at 58 cents per cu. yd. for 4½ mi. Gratigny road, 22,500 cu. yd.

Fla., Miami—City, Ernest Cotton, Dir. of Public Service, let contract to Belcher Oil Co., 1217 Biscayne Blvd., for 8,000 sq. yd. rock base, oil and sand surface paving; C. S. Nichols, Engr.

La., Alexandria—City let contract to Mills Construction Co., \$2.27 per sq. yd., to pave Sixteenth St., Madison to Jackson; I. W. Sylvester, City Engr.

Miss., Canton—Madison County Highway Comm., W. E. Mann, Chmn., let contract to Wright & Gregory, Tupelo, \$32,226, to grade drain and gravel 13 mi. road in dist.; W. H. Bradley, County Engr. 1-2

Miss., Hollandale—Town, Mayor and Bd. of Aldermen, let contract to J. A. Daniel, Greenville, Miss., for 1,650 ft. conc. sidewalk, street crossings, paving, etc.; Duncan Cope, Town Clk. 12-19

Miss., Holly Springs—Town, Mayor and Bd. of Aldermen, let contract to J. P. Rowan, Holly Springs, \$1.55 per sq. yd., for 1545 cu. yd. excavation, 2450 sq. yd. 6-in. conc. paving, 2750 lin. ft. combined curb and gutter, etc.; under Improvement Ordinance No. 159. 12-19

Miss., Sardis—Panola County Bd. of Supvrs., J. A. Carter, Chancery Clk., let contract to Mike Harvey, Oakland, for $\frac{1}{2}$ mi. levee embankment on Como Crenshaw Highway. 12-26

Tex., Beaumont—City, J. W. Anderson, Mgr., let contract to Uvalde Rock Asphalt Co., 1128 N. Mesquite St., San Antonio, \$152,152 to pave 10 streets; R. C. Black, City Engr. 12-26

Tex., Graham—City, A. B. Eddleman, Mayor, let contract to West Texas Construction Co., Cotton Exchange Bldg., Fort Worth, \$126,211, for about 19 blocks of Warrenite bitulithic paving; J. P. Tackett, City Engr.; Hawley & Freese, Consult. Engrs., 411 Capps Bldg., Fort Worth. 12-26

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Birmingham—City votes Feb. 11 on \$3,000,000 bonds for widening, straightening and deepening channels of Village and Valley Creeks. 12-26

Ark., Bald Knob—Sherman Machine & Iron Works, 18 E. Main St., Oklahoma City, Okla., reported, has contract at \$23,770 for sewers.

D. C., Washington—M. Cain & Co., 13 Sixth St., N. W., reported, has contract for sewers in Peabody St., Cortland Pl., Upper Hickies Run and Piney Branch; W. F. Brenizer Co., 101 New York Ave., N. W., Fifth St., for service sewer; J. P. Maher, 3108 K St., N. W., for Meridian Hill sewer; Peter D'Adamo Construction Co., Marine Bk. Bldg., Baltimore, Md., for E. Chevy Chase sewer; total cost \$85,032.

Fla., Jacksonville—City Comm. receives bids Jan. 27 for materials and construction storm and sanitary sewers. See Want Section—Bids Asked.

Ga., Atlanta—Mayor I. N. Ragsdale approved resolution designating Whitman, Requardt & Smith, Baltimore Trust Bldg., Baltimore, Md., to make sewer survey. 12-19

Md., Baltimore—Bd. of Estimates authorized erection pumping station, cost \$42,000, in connection with proposed Broening highway underpass, S. E. Baltimore; Charles F. Goob, Ch. Engr.

Md., Baltimore—Bd. of Awards receives bids Feb. 4, for sewers and drains, Storm Water Cont. No. 141. See Want Section—Bids Asked.

Mo., DeSoto—W. B. Carter, 7 N. Rockford St., Tulsa, Okla., reported, has contract for complete disposal plant. 12-26

Mo., Kansas City—Matthew S. Murray, Director of Public Works, approved 4 sewer projects, including combined storm and sanitary sewers west of Prospect from Seventy-seventh St. to Seventy-seventh Terrace; main line sewer extending from Seventy-first through Forest Hill cemetery interceptor to point east of Troost; lateral sewers south side of Fiftieth, Baltimore to Main Sts., storm laterals north side of Fifty-first, Baltimore to Wyandotte, etc.

Mo., Marshall—City, accepted plans of J. B. Rider, City Engr., for trunk line and lateral sewers; soon call for bids.

Mo., Springfield—Ralph Langston, Route 3 has contract for extension of present sewer in Joint Sewer Dist.; 2691 ft. of 12-in. vit. salt glazed sewer pipe; 100 ft. of 12-in. c. i. pipe; W. E. Ralls, City Engr., 815 East St. Trenton. 1-9-30

Mo., St. Louis—Bd. of Public Service, E. R. Kinsey, Pres., receives bids Feb. 4 for western sanitary sewer, northern sanitary sewer, northern storm drain and drainage along Cold Water Creek diversion channel at St. Louis Municipal Airport. See Want Section—Bids Asked.

Ola., Holdenville—C. H. Edge, Engr., Holdenville, preparing plans for storm sewers Country Club Addition, West Pennsylvania and Harrod Sts.; cost \$30,000.

Ola., Tulsa—City votes Feb. 4 on \$300,000 sanitary sewer bonds, \$1,000,000 storm sewer and \$500,000 park bonds. 1-2-30

Tenn., Chattanooga—City, reported, plans \$125,000 disposal plant for Brahma sewage; probably let contract in March.

Ten., Edna—See Water Works.

Tenn., Johnson City—City soon let contract for 1 mile sanitary sewer and number of manholes on eastern section of Unika Ave.

Tenn., Nashville—Bd. of Public Works, reported, authorized construction 8-in. clay pipe sewer in Clifton Rd. and Garfield St. and water main in West Douglas Ave.

Tex., Brownsville—City, reported, plans sewage disposal plant; cost \$175,000. 12-26

Tex., El Paso—City, R. E. Thomason, Mayor, contemplates building storm sewers and pumping plant to discharge storm water into river against a 20-ft. head; work will probably begin in April; S. F. Crecelius, Constl. Engr.

Tex., Houston—Tellepsen Construction Co., 3900 Clay St., reported, low bidder at \$27,797 for storm sewer along Gray St. from Shepherd Drive.

Tex., San Antonio—C. A. Anderson, 1026 Avant St., reported, has contract for sanitary sewer along Hildebrand Ave. between Warner and Blanco Rd. 12-12

Va., Richmond—Finance Committee recommended \$400,000 bond issue for sewers during 1930. 12-12

W. Va., Charles Town—J. J. Skinner, Charles Town, reported, has contract for sanitary sewer on E. Liberty St.

W. Va., Clarksburg—Clarksburg Country Club, reported, construct sewage disposal plant, including septic tank and filtration bed.

Street Railways

Ola., Oklahoma City—Railway Investment Co., Kent W. Sharpe, Colcord Bldg., capital \$200,000, formed as holding corporation for Oklahoma Ry. Co., operators of city street cars.

Ola., Oklahoma City—Oklahoma Ry. Co., Hubert Hudson, Pres., plans extending tracks of Robinson Ave. car line northward, 28th to 31st St.; plans siding near 11th St.; probably extend Las Vegas line.

Telephone Systems

Ark., Little Rock—Southwestern Bell Telephone Co., E. N. McCall, Dist. Mgr., Seventh and Louisiana Sts., erect \$20,000 telephone exchange, Park Hill; 1 story and basement.

Ark., North Little Rock, Little Rock—Southwestern Bell Telephone Co., St. Louis, Mo., E. N. McCall, Dist. Mgr., erect \$20,000 exchange to serve Park Hill section; 1 story and basement; expend \$3500 for interconnecting equipment in Little Rock main exchange and over \$10,000 perfecting outside lines in North Little Rock, including re-routing cables and additions to new lines. 1-9

Fla., Jacksonville—Telfair Stockton & Co., 329 Laura St., erect building, Laura and Duval St.; Western Union Telegraph Co., Inc., Lessee, 195 Broadway, New York, Marsh & Saxeby, Archts., Consolidated Bldg.; Stone & Webster Engineering Corp., Engr., 49 Federal St., Boston, Mass. 1-9

Ky., Paducah—A. F. Tittsworth applied to Federal Radio Comm., Washington, for authority to erect radio broadcasting station, 2 mi. from city, using 1120 kilocycles, 500 watts.

Md., Baltimore—American Telephone & Telegraph Co., New York, issuing \$150,000,000 35-yr. 5% gold debentures, through J. P. Morgan & Co.; Kuhn, Loeb & Co., both New York; Kidder Peabody & Co., Boston Mass.; First National Bank, New York; Bankers Co. of New York; Harris, Forbes & Co.; National City Co.; Guaranty Co. of New

York, all New York, and Lee, Higginson & Co., Boston, Mass.; proceeds for additions and betterments and for other capital expenditures.

Mo., Kansas City—Southwestern Bell Telephone Co., E. T. Mahood, Engr., has plans complete and now call for bids for first unit of toll building, Oak St. and Whittier Pl.; first unit, 140x130 ft., 3 story, basement and sub-basement, struc. steel frame, open caisson foundations, rein. conc. floor system, brick and terra cotta exterior; designed for 14 stories ultimately; now receiving struc. steel bids; Hoit, Price & Barnes, Archts., Telephone Bldg., I. R. Timlin, Asso. Archt., Telephone Bldg., St. Louis. 11-21

N. C., Greensboro—Southern Bell Telephone & Telegraph Co., Inc., Atlanta, Ga., Morgan B. Speir, Carolinas Mgr., Charlotte, advises program for 1930 in city includes constructing new buildings and outside plant facilities and installing new central office equipment; work started and expected to be complete in October; involves \$2,056,521, including land and central office building, \$387,353; central office equipment, \$583,800; outside plant facilities, \$979,368; converting subsets and miscellaneous, \$106,000. 1-9

N. C., Winston-Salem—Southern Bell Telephone & Telegraph Co., Inc., Atlanta, Ga., Morgan B. Speir, Carolinas Mgr., Charlotte, advises program for 1930 in city includes constructing new buildings and outside plant facilities and installing new central office equipment; construction started, to be complete about March, 1931; involves \$2,183,085, including land and central office building, \$378,938; central office equipment, \$576,337; outside plant facilities, \$1,129,810; converting subsets and miscellaneous, \$98,000.

S. C., Greenville—Following have sub-contracts for telephone building of Southern Bell Telephone & Telegraph Co., Inc., Hurt Bldg., Atlanta, Ga.: Ventilating equipment, American Blower Co., 6000 Russell St., Detroit, Mich.; elec., Huntington & Guerry, 153 N. Church St., Spartanburg; hollow metal doors, Downman-Dozier Mfg. Co., 1314 Murphy St., Atlanta, Ga.; metal windows, Campbell Metal Window Co., 1 Pershing Square, New York; misc. iron and steel, Decatur Iron & Steel Co., Decatur, Ala.; hardware, J. M. Tull Rubber Co., 285 Marietta St., Atlanta, Ga.; steel, Greenville Steel & Foundry Co., Greenville; Barge-Thompson Construction Co., Gen. Contr., 136 Ellis St., N. E.; Marye, Alger & Vinour, Archt., Walton Bldg., Atlanta, Ga. 1-2

Tenn., Chattanooga—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., L. L. Billups, Dist. Mgr., expend over \$500,000 in city in 1930 for improvements, including underground and aerial cables, W. Ninth St.; aerial cable, Palmetto Blvd., A St., Highland Park, S. Crest Rd.; underground and aerial cables, W. Ninth St.; underground cable, Cherry St.; underground conduit and cable, East Chattanooga.

Tex., Dalhart—Standard Telephone Co. of Texas, John E. Davies, Pres., 120 S. LaSalle St., Chicago, Ill., plans expending \$60,000 in city in 1930; new building and site, \$10,000; interior equipment, \$10,000; replacements, \$40,000; entire project to be completed by Sept. 1.

Tex., Goldthwaite—Southwestern States Telephone Co., Dallas, acquired Rural Telephone Co. of Mills County, with exchanges here and at Mullin; H. McKee, Brownwood, to have charge of division; John Skipper to be local representative.

Va., Lynchburg—Chesapeake & Potomac Telephone Co., Richmond, plans expending about \$175,000 in city in 1930 for plant additions, extensions and replacements, including laying underground cable, 12th and McKinley Ave. to Edley Ave.

Textile Mills

Ga., Macon—W. P. Stevens, Bibb Bldg., and M. J. Taylor, reported, interested in organizing company with operating capital \$20,000; establish rayon underwear plant; John Yarborough, Columbia, S. C., in charge.

N. C., Bessemer City—American Combed Yarn Corp., capital \$100,000, incorporated; Robert Goldberg, Gastonia; Frank Goldberg, Bessemer City.

N. C., Charlotte—Alfred Mills, Inc., Alfred Jepson, 714 Worthington Ave., Charlotte, and Fred Taylor, Fall River, Mass., reported, acquired Savona Mfg. Co., Turner Ave., cotton and rayon goods plant; will operate.

N. C., Hickory—Hickory Shoe Lace Mfg. Co., c apital \$50,000, incorporated; L. M. Hull, Hickory; Mary H. Crowell, Lincoln-

N. C., Lexington—Superior Hosiery Co., J. J. Dell, Gen. Mgr., installing 50 knitting machines in plant on West Side Drive; later plan doubling capacity; mfrs. men's dress socks.

N. C., Ronda—Hamilton-Wilco Mills, Inc., B. H. Hamilton, Pres., Salisbury, acquired Wilco Mills; no addition contemplated for several months, except brick office building. 1-9

N. C., Shelby—Carpenter-Colquitt Mills, Inc., organized with R. E. Carpenter, Pres.; install 25 knitting machines; manufacture women's hose and half hose.

N. C., Spindale—Sterling Hosiery Mill, recently consolidated with Forest City Hosiery Mills; K. S. Tanner, Pres.; moving equipment from Forest City plant.

S. C., Clearwater—Chas. T. Main, Inc., Engr., Boston, Mass., advises that recent report regarding plant at Clearwater for United Merchants & Manufacturers, Inc., Boston, is evidently for finishing plant, on which construction is completed and operation just started. 1-9-30

S. C., Greenwood—J. C. Self, Pres., Greenwood Mills, reported, negotiating for Grendel Mills.

Tenn., Chattanooga—Debonair Full Fashioned Hosiery Mills, (successor to Debonair Hosiery Mills) completed organization; capital \$150,000; Clyde Wilkins, Pres., Chattanooga; G. H. Northcutt, Marietta, Ga., Sec.; will equip mill with 42 gauge full fashioned machines. 1-2-30

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

D. C., Washington—National Cast Iron Pipe Co., 225 Broadway, New York, reported, low bidder for 120 tons of 20-in. Class B c. i. water pipe.

Fla., Belle Glade—Town postponed date on voting on \$30,000 bonds for water system. 12-19

Fla., Hollywood—Permutit Co., 440 4th Ave., New York, reported, has contract for water filtering and storage plant; contract exclusive of foundation for tanks, \$18,410; city will build foundation; install well pumps, capacity 900 gals. per minute. 10-17

Ga., Augusta—City, reported, expend \$15,000 for extension water mains to State School for Mental Defectives at Gracewood.

Ky., Ashland—City Council, reported, approved bond issue of \$200,000 for improvements to filtration system of water works; Cook Means, member Water Works Comm. 11-28

La., Shreveport—City, reported, let contract to J. N. Chester Engineers, Clark Bldg., Pittsburgh, Pa., for engineering plans for construction of pump station near Cross Lake; cost about \$500,000. 12-26

Md., Frederick—City, Elmer St. C. Maxwell, City Engr., making survey of 7080 acres of watershed on Catoctin Mountain.

Miss. Edwards—Layne-Central Co., Chelsea, Memphis, Tenn., has contract for extension to water system; install pump.

N. C., Charlotte—City, R. W. Rigsby, City Mgr., reported, plans additional water supply line to Catawba River.

Okla., Keyes—City, J. F. Moore, Mayor, reported, has preliminary plans for \$20,000 water works.

S. C., Rock Hill—City receives bids Jan. 29 for addition to filtration plant and building; cost \$30,000; plans by Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga.; rein. steel; cone, and brick; comp. roofing; steel sash; 92x51x14 ft. coagulating basin; 29x27x30 ft. filter bldg.; filter equipment for 2½ m. g. d. filter units; remodeling present 2½ m. g. d. filter units; install dry feed machine; and 25,000 gal. elevated steel wash water tank; McClelland Co., Latta Arcade Tucker & Laxton, Independence Bldg., and Boyd & Goforth, Builders Bldg., all of Charlotte, N. C. estimating. 11-21

Tenn., Chattanooga—City Water Co., A. F. Porzelius, Supt., reported, install 6 additional filters, capacity of each 1,000,000 gals.; cost \$75,000.

Tenn., Chattanooga—City Water Co., reported, plans \$25,000 enlargement to filter plant.

Tenn., Charleston—J. J. Nichol, reported, acquired interest in Charleston Water Co.

Tex., Austin—City, reported, let contract to United States Pipe & Foundry Co., Birmingham, Ala., for \$26,818 pipe and fittings for water improvement distribution system. 12-12

Tex., Dallas—J. B. McCrary Co., Citizens & Southern Bk. Bldg., Atlanta, Ga., reported, will receive contract at \$295,537 for additional water mains. 12-19

Tex., Dimmit—City let contract to D. L. McDonald, Amarillo Bldg., Amarillo, for 500 gal. capacity water well; Jordan & Hall Construction Co., Plainview, has contract for distribution system. 4-25

Tex., Edna—City receives bids Jan. 22 for water works and sewer system. See Want Section—Bids Asked. 1-2-30

Tex., Fort Worth—Following additional bidders for flood control, Tarrant County Water Control & Improvement District, No. L. Walter Bennett, Chrmn.; C. F. Lytle, Mexia; Tibbets Const. Co., 714 Neil P. Anderson Bldg.; Mellon Stuart Co., 810 Conway Bldg., Chicago, Ill.; Haralson & Cunningham, 410 First Natl. Bank Bldg., Houston; Elmer Seybold, Fort Worth; Woods Bros. Const. Co., Lincoln, Neb.; bids opened Jan. 21. 1-2-30

Tex., Harlingen—Central Power & Light Co., Frost Bldg., San Antonio, receives bids Jan. 18 for filtration plant addition; 1 story, brick, rein. cone; plumbing, wiring and piping included in contract; Hawley & Freese, Engrs., Frost Bldg., San Antonio.

Tex., Olney—City, J. L. Richardson, Mayor, plans water works; may vote on bonds.

Tex., Quanah—City votes Feb. 4 on sale of water works system.

Va., Lynchburg—City, reported, construct storage tank at Fairview Heights.

Va., Lynchburg—City, W. B. Hart, Mgr., extend water mains to Fort Hill Burial Park.

W. Va., Morgantown—City, reported, considering \$117,000 improvements to water supply system; installation of rapid sand filtration from Tibbs Run reservoir, zeolite process of water softening, in Monongahela River, etc.

Woodworking Plants

Fla., Coral Gables, Miami—Imperial Wood Carvings Shop, Inc., capital \$50,000, chartered; J. M. Murrell, Biscayne Bk. Bldg.

Fla., Hialeah—Pearce Mfg. Co., George W. Pearce, Pres., plans manufacturing cigar boxes at plant now producing millwork, sashes, doors, frames, showcases and furniture.

N. C., Lenoir—Kent-Coffey Mfg. Co., F. H. Coffey, Pres., plans expanding plant to increase production 25 to 30%; erect dry kiln, install machinery, erect additions to machine building and large 4-story warehouse, equipped with 2 elevators and heating and sprinkler system; start construction within 60 days.

N. C., Lenoir—Harper Furniture Co., Inc., capital \$75,000, chartered; Thomas H. Broyle.

FIRE DAMAGE

Ala., Florence—Dr. L. T. Young's dairy barn; loss \$15,000.

Ala., Geneva—Alabama National Guard Armory; loss \$50,000 to \$60,000; address Major Albert A. Carmichael.

Ala., Holy Trinity—Mother house of Holy Trinity Academy; \$50,000.

Ala., Townley—DeBardeleben Coal Corp. Bldg., occupied by Masonic Temple, W. A. Beard & Co. and B. Grusin & Co.'s stores; loss \$100,000.

Ark., DeQueen—M. F. Allen's residence; loss \$16,000.

Ark., Fayetteville—W. A. Barron's residence, Parkside Addition.

Ark., Joiner—Post Office (address the Postmaster); L. C. Goudean's store; Mack's Cafe; loss \$30,000.

Fla., Laurel Hill—Warehouse of Florida Gin Co.; loss \$40,000.

Ga., Atlanta—Three-story apartment, 2181 Peachtree Road, owned by Mrs. E. L. Wentworth; loss \$75,000.

Ga., Tallapoosa—W. L. Bennett's brick warehouse on Alabama St.

Ga., Valdosta—Residence of E. M. Tullis, Mgr., Southern Bell Telephone Co. exchange; loss \$12,000.

Ky., Paducah—F. H. Jones & Co.'s hardware store; Louis Lookofsky's clothing store; loss \$50,000.

La., Simsboro—Thomas Bldg., owned by Dr. A. J. Thomas, 940 Margaret Place, Shreveport; Simsboro State Bank; loss \$10,000.

Miss., Jackson—MacGowan Coffee Co.'s building, 212 S. State St.; loss \$20,000 to \$25,000.

Miss., Jackson—St. Andrews P. E. Church, Dr. Walter B. Capers, Rector; loss \$10,000 to \$15,000.

Miss., Laurel—Eastman Gardiner Hardwood Co.'s sawmill.

Miss., Tupelo—Barn of D. W. Robins on farm south of Tupelo.

Miss., Tupelo—Highway Commr. D. W. Robins' dairy barn, Verona Rd.; loss \$20,000.

Miss., Utica—Christian Church.

Mo., Ferguson—Universal Match Co.'s plant, Short St. and Wabash tracks; loss, reported, \$500,000.

Mo., St. Louis—Building occupied by Davis & Co., Cooks and Walters' Club; loss \$10,000.

N. C., Charlotte—J. Silas Hunycutt's residence.

N. C., Burlington—Smith-Morrow Bldg., Front and Worth Sta., owned partly by M. B. Smith; loss \$150,000.

N. C., Durham—The Pines, Chapel Hill Road tea room, operated by Mrs. M. R. Vickers.

N. C., Greensboro—Building at 321-25 S. Elm St., owned by Richardson Realty, Inc., Piedmont Bldg., leased to Morris Plan Industrial Bank, Atlantic & Pacific Tea Co. and Army and Navy Stores; loss \$50,000.

N. C., Lexington—Mount Olive Methodist Church, Arcada township, Davidson County.

N. C., Sims—Burnett Supply Co.'s sawmill and cotton gin; loss \$12,000.

Okla., Holdenville—Holdenville High School; loss \$100,000.

Okla., Muskogee—Basement and first floor of Calhoun Dry Goods Co.'s building, 201 W. Broadway.

S. C., Blackville—Store building owned by Herman and Isadore Brown; loss \$100,000.

S. C., Chester—Mrs. J. K. Johnston's residence, West End; loss \$10,000 to \$12,000.

S. C., Greenwood—Quality Shoe Shop, Inc., T. A. Marsh, Propr.

S. C., Johns Island—Combination passenger, express and freight station of Atlantic Coast Line R. R. Co., J. E. Willoughby, Ch. Engr., Wilmington, N. C.

S. C., Swanson—Ford motor building of Tom Etheredge.

Tenn., Covington—Covington Supply Co.'s department store; loss \$100,000.

Tex., Bryan—Buildings owned by Mrs. Gabe Cazell, San Antonio, and Mrs. C. M. Cole, Bryan, and occupied by J. L. Brock's dry goods store and Wilson Bradley's furnishing goods store; loss \$22,000.

Tex., Floyd—Independent Order of Odd Fellows' lodge building.

Tex., Houston—George H. Dentler Co.'s food products plant, 1809 Summer St.; loss \$20,000.

Tex., Humble—Residence near Humble of O. W. Biggs, Supt. of Texas Co.; loss \$10,000.

Tex., McKinney—John F. Martin's shoe store; loss \$25,000.

Tex., Odessa—J. M. Radford Wholesale Grocery Co.'s store; loss \$30,000.

Tex., Stamford—W. P. Lyles Economy Store; Stamford American Bldg. (newspaper) loss \$35,000.

Tex., Wills Point—H. J. Bagby's residence "Goodnight Place" near Wills Point; loss \$10,000.

Va., Belfast Mills—J. B. Ferguson's store on old Belfast-Lebanon Road.

Va., Brookneal—Sure-Wear Hosiery Mills; loss \$50,000; tobacco warehouse owned by T. L. Foster; loss \$10,000.

Va., New Market—Shenvalle Country Clubhouse; loss \$45,000.

W. Va., Charleston—Morgan Lumber & Mfg. Co.'s warehouse; loss \$150,000; Harold B. Shadle, Mgr.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

La., New Orleans—Young Men's Christian Assn., J. Lee Rhodes, Chmn., Bldg. Comm., probably have plans ready in few days for bids on \$325,000 bldg., Lee Circle and St. Charles Ave.; fireproof, rein. conc., brick, stucco, 3 and 4 stories; gymnasium, swimming pool, living quarters for about 200; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg. 8-15

Okla., Shawnee—Salvation Army, A. J. Fluke, Chmn., Bldg. Comm., has plans complete for \$30,000 bldg.; brick and conc., 3 stories, 44x100 ft.; A. C. Davis & Sons, Archts.

Tenn., Brownsville—Ancient Free and Accepted Masons consider rebuilding burned lodge bldg.; \$40,000.

Tex., Houston—Lodge No. 101, I. O. O. F., Edw. C. Wolff, Sec., erect \$25,000 lodge bldg., Quitman and Cochran Sts.; Wm. L. Pedder, Archt., 3711 Reagan St.

Bank and Office

Ark., Walnut Ridge—Dr. W. T. Smith, Less Bldg., erect office bldg.; X-ray equipment.

D. C., Washington—Westheimer & Co., Woodward Bldg., remodeling quarters; mahogany and art metal equipment.

D. C., Washington—Owners of Washington Bldg., care Weaver Bros., Inc., 809 15th St., N. W., remodel section for store; \$200,000; E. Paul Beahles, Archt., 17th and John Sts., New York.

La., Baton Rouge—Citizens Bank & Trust Co. having preliminary plans drawn by Lewis A. Grosz, Archt., Reymond Bldg., for \$12,000 to \$15,000 1-story bank bldg., 18th and Main Sts.; bids in about 60 days.

Mo., Kansas City—Kansas City Power & Light Co. has tentative sketches by Holt, Price & Barnes, Telephone Bldg., for \$2,000,000 office bldg., 1314-18 Baltimore St.; H. F. Freshman, company archt., 1330 Grand Ave.; architect not yet selected. 12-26

Tenn., Memphis—National Automobile & Casualty Insurance Co., J. T. Russell, Pres., 205 S. Belvedere St., having plans completed by Louis G. Carlisle, Archt., Medical Arts Bldg., for \$300,000 office bldg., 1070-98 Union Ave.; rein. conc. constr., orna. stone front, 4 stories, 125x120 ft. 9-19

Tex., Brownsville—Merchants National Bank let contract to Ben Proctor, Brownsville, to remodel bldg.; Atlee B. & Robt. M. Ayres, Archts., Smith-Young Tower; W. B. Simpson & Co., Engrs., Malm Bldg., both San Antonio. 12-19

Tex., Mission—First National Bank has low bid at \$25,000 from Meriwether & Sowers, Harlingen, for bank and store bldg.; Decker & Tanner, Archts., Mission; Robt. L. Vogler, Asso. Archt., Edinburg. 11-21

Tex., New Braunfels—First National Bank, Walter Faust, Pres., erect \$60,000 bank bldg.; brick or stone, rein. conc., 1 story; Glesecke & Harris, Archts., Norwood Bldg., Austin; Jeremiah Schmidt, Asso. Archt., New Braunfels.

W. Va., Martinsville—Citizens National Bank, W. King St., and Merchants & Farmers Bank, S. Queen St., plan to consolidate as Merchants & Citizens National Bank of Martinsburg, with Thos. W. Martin as president; remodel and enlarge Merchants & Farmers Bank Bldg.

Churches

Ala., Montgomery—Court St. Methodist Church, Dr. Glenn Andrews, Chmn., Bldg. Comm., will consider plans Jan. 17 by Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham, for \$330,000 bldg.; auditorium seat 1000, Sunday school accommodate 1000. 11-28

Ark., Fort Smith—Dodson Ave. Methodist Church, T. L. Hunt, member, Financial Comm., erect \$50,000 building.

Ark., Little Rock—B'Nai Israel Congregation, M. L. Altheimer, Pres., 1801 Arch St., plans \$200,000 synagogue.

Ark., Little Rock—Pulaski Heights Baptist Church, W. R. Donham, member, Bldg. Comm., considers erecting \$150,000 building.

Ky., Glasgow—Christian Church erect building.

La., Tioga—Baptist Church, A. P. Colvin, member, Bldg. Comm., plans building during 1930; raising funds.

Md., Baltimore—St. Mark's M. E. Church, Garrison Blvd. and Liberty Heights Ave., Geo. C. Saunders, Chmn., Bldg. Comm., Standard Oil Bldg., having revised plans drawn by Cly deN. & Nelson Friz, Archts., Lexington Bldg., for \$200,000 auditorium; Gothic type, gray stone, seat about 750 on main floor; 2 stories, about 52x260 ft. slate roof. 10-24

Miss., Jackson—St. Andrews P. E. Church, Dr. Walter Capers, Rector, repair structure damaged by fire; \$25,000.

Mo., Cape Girardeau—Grace Methodist Church, Rev. W. O. Schulze, Pastor, plans to raise funds for \$50,000 church and Sunday school.

Mo., North Kansas City, Kansas City—First Presbyterian Church opens bids Feb. 1 for native stone and cut stone trim bldg., \$16,400; 1 story and basement, 36x65 ft., hardwood floors, tile or asbestos shingle roof; furnishings, equipment, etc., \$1500; J. C. Lawrence, Archt., Commercial Bldg. See Want Section—Building Material and Equipment.

Mo., St. Louis—South Side Baptist Church, Rev. Albert Linder, Pastor, plans bldg.; Sunday school as first unit.

N. C., Wallace—Baptist Church erect \$10,000 Sunday school annex; material on site.

Tenn., Chattanooga—Mount Carmel Baptist Church, Colored, erect \$9000 to \$10,000 bldg., 17th and Washington Sts.; plans drawn.

Tex., Fort Worth—Oakhurst Presbyterian Church plans building during 1930.

Tex., Fort Worth—Meadowbrook Methodist Church plans bldg. during 1930.

Tex., Fort Worth—Sylvania Heights Church plans bldg. during 1930.

Tex., Houston—Central Baptist Church erect \$75,000 bldg., Texas and Dumble Sts.; rein. conc. and buff brick, 54x95 ft. with 38x91-ft. Sunday school wing, 3 stories; Sam H. Dixon, Jr., Archt., Electric Bldg.

Tex., San Antonio—Denver Heights Presbyterian Church, Denver Blvd. and S. Mittman St., Rev. Edgar Hubbard, Pastor, plans \$25,000 bldg., New Braunfels and Peck Aves., during 1930; brick, 2 stories; archt. not selected.

City and County

Ark., Pampa—City, D. W. Osborne, Mayor, selected W. R. Kaufman as architect for \$100,000 city hall and \$33,000 fire station; bonds available. 9-5

La., New Orleans—Jefferson Volunteer Fire Department No. 1, L. A. Sanders, Chmn., Bldg. Comm., 3800 Tulane Ave., receives bids until Feb. 6 for hollow tile and stucco engine house, Jefferson Terrace; 2 stories, 40 x 72 ft. 12-19

Miss., Kosciusko—Attala County votes Jan. 30 on \$60,000 bonds to repair courthouse, Address County Bd. of Supvrs.

Miss., Pascagoula—City erect 100-ft. pier, pavilion, bath houses and boat landing; bids Jan. 11; later erect dance hall and pavilion; \$60,000 bonds available.

Mo., Butler—City Council erect city hall and fire dept. buildings.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., has preliminary plans for \$50,000 brick community bldg.; F. A. Updegraf, Archt., Civil Courts Bldg.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., probably call for bids about Feb. 1 for \$139,000 Buder bathhouse and swimming pool; fireproof, brick and rein. conc., 2 stories, part basement and attic, 90x126 ft., 35x75-ft. swimming pool; city also considers erecting \$100,000 bathhouse; brick, 2 stories; F. A. Updegraf, Archt., Civil Courts Bldg. 10-10

Okl., Tulsa—City, K. R. Teis, City Engr., votes Feb. 4 on \$6,230,000 bonds, including \$450,000 for fire stations, equipment and fire signal system, \$150,000 for municipal hospital \$60,000 for negro hospital, \$60,000 for

convention hall, \$75,000 for public library, \$50,000 for detention home and \$170,000 for public buildings. 12-12

S. C., Anderson—Anderson County Bd. of Commls. improve jail.

Tex., Fort Worth—City, O. E. Carr, City Mgr., selected Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., as architect for fire alarm signal station. 12-26

Tex., Fort Worth—City Council, O. E. Carr, City Mgr., may erect jail.

Tex., San Antonio—City, Phil Wright, Fire and Police Commls., purchased site, Terrell Hills, for fire station. 10-24

Tex., San Antonio—City, Jacob Rubiola, Park Commls., has bid at \$197,777 from Rheiher Kroeger, Builders Exchange Bldg., for open air theater, Star Garden, Brackenridge Park; plans by Gutzon Borglum, Mercer Hotel.

Va., Marion—Smyth County Bd. of Supvrs., L. Kent, County Clk., having plans drawn by Stone & Stone, Bristol, to remodel jail; \$35,000.

Va., Vienna—Vienna Volunteer Fire Dept., J. W. Bennett, member, plans fire engine house.

Dwellings

Ala., Birmingham—T. T. Davidson, 1812 N. 18th Court, erect \$10,000 brick and stone veneer residence, Forrest Park; 2 stories, 46x50 ft., comp. roof, furnace heat; Robt. G. Chapman, Archt., Bankers Bond Bldg.

Ala., Birmingham—Nathan L. Miller, 2842 Eleventh Ave., South, erect \$20,000 residence, Altamont Rd.; brick veneer, 2 stories, comp. roof; Gibson Construction Co., Contr., First Natl. Bk. Bldg.

Ark., Batesville—District Engineer, U. S. Engineer Office, McCall Bldg., Memphis, Tenn., let contract to Ernest Jobe, Batesville, for frame stucco dwelling, Lock No. One. 12-5

Ark., Dermott—Henry Lloyd Bordeau considers erecting brick veneer residence; 1 story, 6 rooms.

Ark., Marianna—Max S. Miller erect brick veneer residence; 1 story, 42x62 ft., oak floors, tile bath, comp. roof; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn.

Fla., Miami Beach—John L. Lyons, New cast stone work, orna. iron, steel sash, tile, and 56th St.; rein. conc., 1 and 2 stories, York, erect \$100,000 residence, Collins Ave., elect. heat, gas water heater; 3-car oak and maple floors, comp. roof, water garage and servants' quarters; Peyton E. McWilliams, Archt.-Engr., 506 Realty Bd. Bldg., Miami, Fla.

Ga., Atlanta—F. P. & Geo. J. Morris, 76 Pryor St., plans to erect 48 dwellings during 1930.

Ga., Atlanta—Morris Brandon, Jr., Atlanta Tr. Bldg., erect \$18,000 residence, Pine Valley Rd.; brick stucco and half-timber 1 story and basement, about 74x60 ft., 2 baths, tile, hardwood and linoleum floors, Buckingham slate roof; Cyril B. Smith, Archt., Bon Allen Bldg.; bids in.

Ga., Columbus—Tom Huston, Pres., Tom Huston Peanut Co., Inc., 5th St., erect \$75,000 residence, Green Island Hills; fireproof, rein. conc., brick and stone, hardwood, marble and tile floors, slate roof, steam heat; Richard H. Smythe, Archt., 681 Fifth Ave., New York; T. Firth Lockwood, Asso. Archt., Murrah Bldg., Atlanta; Hugh McMath & Co., Landscape Engrs., Columbus.

Ky., Louisville—Fante Bros. erect \$10,000 brick veneer dwelling, 1845 Deer Park Drive.

Ky., Louisville—Wm. Reed, 605 Heywood St., erect residence, Mocking Bird Valley; Nevin, Morgan & Kolbrook, Archts., Starks Bldg.

Ky., Louisville—E. G. Isaacs, Commodore Apts., erect \$10,000 residence, 560 Sunnyside Drive; brick veneer, frame garage.

Ky., Louisville—Mrs. Gilberti Cowan erect \$20,000 brick residence, 1219 Summit Ave.

La., Baton Rouge—L. H. Petue erect \$18,000 residence; brick veneer, hardwood floors, steam heat; built-in features; Lewis A. Grosz, Archt., Reymond Bldg., ready for bids.

La., New Orleans—J. J. Cerise, 2401 Broadway, erect summer residence, Clermont Harbor.

Md., Baltimore—Wrenn, Lewis, Westhaven & Jencks, Archts., Title Annex Bldg., drawing plans for two \$30,000 dwellings; stone, 2½ stories.

Md., Baltimore—Dr. S. DeMarco, 1604 Linden Ave., plans \$25,000 residence; stone, 2½ stories.

Md., Baltimore—D. M. Hessler, 1100 E. Baltimore St., remodel and erect addition to residence, 904 Lake Drive; \$25,000; Lucius R. White, Archt., Court Square Bldg.

Md., Baltimore—A. Graham Christie, Homewood Apts., erect \$20,000 residence; stone, 2½ stories; E. H. Glidden, Archt., American Bldg.; C. K. Wells, Jr., Contr., 3538 Old York Rd.

Md., Baltimore—H. Eckles, 3509 White Ave., erect stucco residence, 3114 E. Gibbons Ave.

Md., Ruxton, Baltimore—Geo. Page West, 1 Merrymount Rd., erect residence, Locust Ave.

Md., Baltimore—Bertram L. Constable, 311 W. 31st St., erect dwelling, Overhill and Wickford Rds., Roland Park.

Md., Ruxton, Baltimore—Moreau F. Green, 101 W. 39th St., plans residence, Boyce Ave.

Mo., Kansas City—Douglas Harding erect \$15,000 residence, 5115 Sunset Drive.

Mo., St. Louis—Edw. J. Sandusky, care Hiram Phipps, Archt., 4162 Castlemore Ave., erect \$12,000 residence, Gravois and Pardee Rds.; brick and stone, 1½ stories and basement, 35x42 ft., hardwood floors, tile bath, shingle roof, oil burner, hot water heat; bids Jan. 15.

Okla., Enid—Roy Norris erect \$10,000 residence, 515 S. Garfield St.

S. C., Georgetown—Wm. W. Montgomery, Radnor, Pa., purchased 2500-acre plantation, between PeeDee River and Lauch's Creek; remodel buildings.

Tenn., Memphis—W. M. Bell, First Natl. Bk. Bldg., considers erecting brick residence, Poplar Ave. and Belleair Drive; 2 stories, hardwood floors, tile baths, comp. or tile roof.

Tenn., Memphis—Dr. J. O. Gordon, Medical Arts Bldg., erect \$15,000 residence, 3437 Central St.; brick, 11 rooms.

Tex., Fort Worth—Herman Gardner, Electric Bldg., erect \$40,000 residence, Rivercrest Addition, brick, 2 stories and basement, tile baths, metal lath, steam heat; John F. Staub, Archt., Second Natl. Bk. Bldg., Houston; bids in on revised plans.

Tex., Houston—B. A. Killson, Cotton Exchange Bldg., erect \$15,000 residence, Stanmore Drive; Chas. W. Oliver, Archt., River Oaks Bldg.

Tex., Houston—J. R. Ellis, 2411 Southmore St., erect \$10,000 residence, 2415 Calumet St.; brick veneer, 8 rooms.

Tex., Pharr—J. J. Lynn, 6440 Brooklyn St., Kansas City, Mo., erect \$25,000 winter residence; drawing plans.

Tex., San Antonio—A. B. Phelps, 401 Dewey Place, erect stucco residence, Howard St. and Ridgewood Ct.; 1 and 2 stories, rein. conc. foundation; Adams & Adams, Archts., Real Est. Bldg.; plans ready.

Tex., San Benito—F. S. Robertson opens bids Jan. 17 for Spanish type stucco residence; 1 story, 7 rooms, tile roof; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg., San Antonio. 12-19

Va., Alexandria—Floyd H. King purchased "Mount Ida"; restore residence.

Government and State

D. C., Washington—Government having final plans drawn by Allied Architects of Washington, Inc., 16 Jackson Place, N. W., for \$7,500,000 House Office Bldg., addition; T. N. Marshall, Struct. Engr., 1341 Connecticut Ave., N. W.; G. A. Weschler, Mech. Engr., 16 Jackson Place, N. W.; plans being prepared under gen. supervision of David Lynn, Architect of the Capitol, and the House Office Bldg. Coms.; Nathan C. Wyeth in charge for architects; structure marble, 5 to 9 stories. 5-2

Miss., Greenwood—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., reported, plans \$90,000 post office.

Tenn., McMinnville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$46,271 from J. P. Foley & Sons, Inc., 489 Blue Hill Ave., Boston, Mass., for post office. 12-26

Tenn., Memphis—Additional contractors estimating on \$1,500,000 extension and remodeling of custom, courthouse and post office bldg., bids Jan. 30 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; S. & W. Construction Co., Shrine Bldg.; F. J. Ozanne & Co., Empire Bldg., both Memphis; Ring Construction Co., 93 S. 11th St., Minneapolis, Minn.; Strandberg

Bros. Co., Transportation Bldg., Chicago, Ill.; W. P. Rose Co., N. James St., Goldsboro, N. C.; R. P. Farnsworth & Co., Inc., Maritime Bldg., New Orleans, La.; J. A. Jones Construction Co., Commercial Bank Bldg., Charlotte, N. C. 1-9

Tex., Randolph Field, Schertz—Constructing Quartermaster, Randolph Field, Capt. A. W. Parker, opens bids Feb. 3 for 2 operations and parachute bldgs., \$20,000 each, and fire station, \$15,000; former 1 story and basement, 90 x 142 x 50 ft. with 32 x 27-ft. wings, U shape, steel sash struct. steel trusses; latter 2 stories, about 65 x 45 ft., accommodate 3 engines; all rein. conc., hollow tile and stucco, Spanish tile roof; also opens bids Feb. 10 for 10 field officers' quarters, 28 company officers' quarters and 130 sets (65 duplex bldgs.) of non-commissioned officers' quarters, total about \$1,000,000; officers' quarters 1 story, n.e.o. quarters 2 stories, all Mission type, masonry constr., stucco, tile roofs.

Architects have been selected to prepare working drawings for practically all of remainder of building work, to cost in excess of \$3,000,000, as follows: Administration bldg., Atlee B. & Robt. M. Ayres, Smith-Young Tower; bachelor officers' quarters and bachelor officers' mess, Phelps & DeWees, Gunther Bldg.; cadet barracks and cadet mess and recreational bldg., Emmett T. Jackson; hospital, George Willis, both Builders Exchange Bldg.; Air Corps shops, Henry T. Phelps; Hicks Bldg., Academic Bldg., Ralph H. Cameron; School of Aviation Medicine, Adams & Adams; officers' mess, Harvey P. Smith, Nat'l. Bank of Com. Bldg.; Post Exchange, Robt. B. Kelly, Milam Bldg.; 11 field officers' quarters, Herbert S. Green, Alamo Bank Bldg.; 82 company officers' quarters, John M. Marriott, Frost Nat'l. Bank Bldg., all architects of San Antonio. Plans to be completed within 30 days and work to be advertised immediately. Several other bldgs., including gymnasium, chapel and school, and garage will probably be given to local architects within about 10 days.

In addition to above work engineering features include field drainage, storm sewers, gas distribution system, underground electric distribution system and pavement of roadways; water distribution system has been about completed and sewage collection system under way; probably call for bids within 30 days for sewage disposal plant. 1-9

Va., Arlington—Navy Dept., Bureau of Yards and Docks, Washington, D. C., has low bid at \$14,547 from Smythe & Co., 1416 F St., N. W., Washington, for quarters, Naval Radio Station. 12-12

Va., Fortress Monroe—Constructing Quartermaster has low bid from Davis Bros., Builders Exchange Bldg., Richmond, for six 4-family brick and tile apartment houses; \$175,000.

Va., Newport News—City Council, W. R. West, member, Real Estate Comm., plans armory for National Guard headquarters, considering architect's sketches.

Va., Richmond—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids Feb. 19 for extension and remodeling (except elevators and elevator hatchway entrances) of post office, courthouse and custom house; drawings from office Supvg. Archt.; \$1,500,000. 10-3

Hospitals, Sanitariums, Etc.

Ark., Alexander—State Construction Commission, Jos. M. Hill, Chmn., Fort Smith, has completed plans by Wittenberg & DeLony, Archts., Home Ins. Bldg., Little Rock, for \$40,000 tuberculosis sanatorium for negroes near Alexander; brick and conc., 2 stories, conc. and wood floors, comp. built-up roof, struct. steel. 1-9

Ark., Helena—Hospital Board, R. T. Doughtie, member, erect hospital; bonds available.

Fla., Jacksonville—Women's Home Missionary Society, Secaucus, West New York, N. J., receives bids Jan. 24 at office Ballinger Co., Archts.-Engrs., 12th and Chestnut Sts., Philadelphia, Pa., for \$200,000 Brewster Hospital and nurses' home; fireproof, rein. conc., brick, stone trim, 3 stories and basement, terrazzo, tile and comp. floors, steam heat; following contractors estimating: Geo. D. Auchter, 600 E. Fourth St.; W. T. Hadlow, 32 W. Forsyth St.; Geo. W. Hessler, Inc., Barnet Natl. Bk. Bldg.; O. P. Woodcock Co., 421 Duval Bldg.; J. B. Cox, 3102 Liberty St.; Walter J. Bryson Construction Co., 14th St. and Myrtle Ave.; all Jacksonville; Davis Bros., Inc., Builders Exch., Richmond, Va.; John H. Bull, First National Bank Bldg., St. Petersburg, Fla. 11-21

Ga., Milledgeville—State, L. G. Hardman, Gov., has drawn \$20,000 warrant to equip L. M. Jones Bldg. at Milledgeville State Hosptal.

La., New Orleans—Orleans Anti-Tuberculosis League Bldg. Comm., Wm. C. Ermon, Chmn., 201 Baronne Bldg., receives bids until Feb 3 (lately noted Jan. 15) for group of 1-story frame and stucco bldgs. for tuberculosis hospital, Gentilly Terrace; 341 x 110 ft. with courtyard in center rein. conc. foundation, cement and wood floors, Elotex, asbestos shingle roof, 2 dining rooms, M. B. DePass, Archt., 926 Pauline St.; estimators noted Jan. 9; Richard McCarthy, Maritime Bldg., and Denis & Hardy, 823 Perdido St.; additional estimators. 1-9

Miss., Aberdeen—Mayor and Bd. of Aldermen receive bids until Feb. 5 for \$15,000 hospital equipment; information from R. C. Maynard, Town Clerk.

N. C., Charlotte—Mecklenburg County Bd. of Comms., plans ward for negro children, Mecklenburg County Tuberculosis Sanatorium.

N. C., Goldsboro—Goldsboro Hospital, W. A. Dees, Chmn., Bd. of Trustees, approved plans by John D. Gullette, Archt., Borden Bldg., for \$10,000 annex; 4-story central wing; 3-story nurses' dormitory. 7-18

N. C., Greensboro—Penmar Sanitarium Dr. Hubert Lee Wyatt, 217 Berkley Place, physician in charge, 2915 Spring Garden St., may erect bldg. in Spring.

N. C., Reidsville—Rockingham County Bd. of Comms., has offer of \$100,000 from Mr. and Mrs. Jefferson Penn to erect tuberculosis hospital.

Okla., Tulsa—City, K. R. Teis, City Engr., votes Feb. 4 on \$150,000 bonds for municipal hospital; also on \$60,000 for negro hospital. Tenn., Chattanooga—Chattanooga & Hamilton County Medical Assn., Dr. Hiram A. Laws, Chmn., Hospital Comm., interested in erection of \$1,000,000 hospital.

Hotels and Apartments

Fla., Leesburg—Clark Kauffman erect 2-story and basement, 50x33-ft. brick apartment on Silver Lake near Leesburg; asbestos and built-up roof, hardwood, pine and tile floors, electric refrigerators; M. E. Kressly, Archt., Smith Bldg., Orlando.

Ga., Atlanta—Mrs. E. L. Wentworth, 2181 Peachtree Road, plans rebuilding apartment noted burned at loss \$75,000.

Md., Bethesda—Dr. B. C. Perry, reported, having plans prepared by H. U. Cutler, 1800 E St., N. W., Washington, D. C., for \$40,000, 3-story, brick apartment and office building, Wisconsin Ave. 10-24

Miss., Greenwood—Weiner Hotel has low bid from S. L. McGinnis for 73x80x120 ft., brick, stone trim, fireproof, 60-room addition and improvements to hotel; \$125,000; Hull & Malvaney, Archts., Merchants Bank and Trust Bldg., Jackson. 12-12

Mo., Kansas City—Isaac and M. H. Katz, 3629 Harrison St., have plans by S. B. Tarbet, Nat'l. Fidelity Bldg., for 2-story building, 14th and Main Sts.; 7 storerooms on first floor; 24 hotel rooms on second.

Mo., St. Louis—J. E. Nurbraus, care W. P. Manske & Associates, Archts., 4526 Olive St., soon ready for bids for 2-story and basement, 42x42 ft., brick, 4-apartment, 4516 Chester St.; terra cotta trim, hardwood floors, asphalt roof, hot air heat.

Mo., St. Louis—Mrs. Ruby Edwards, Main and Peddicord Sts., plans 2-story, brick veneer, 4-apartments.

Tenn., Chattanooga—G. B. Glenn, 140 N. Crest Road, plans 3-story, 60-room hotel.

Tex., Fort Worth—Mrs. J. B. Yale, 1062 W. Magnolia St., erect 2-story, 48x61 ft., brick veneer apartment in Bluebonnet addition; Earl T. Glasgow, Archt., First Natl. Bk. Bldg.; bids in.

Tex., Houston—M. C. Jarvis, 1312 McIlhenny St., erect \$20,000, rein. conc., hollow tile and brick veneer, 8-apartments, Austin and Prospect Sts.

Tex., Stephenville—Senator Carl C. Hardin and associates receive bids Feb. 1 on \$300,000, rein. conc., brick and stone, 88-room hotel; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth. 12-19

Miscellaneous

D. C., Washington—John M. Donn, Archt., 1219 Connecticut Ave., N. W., lately noted preparing preliminary plans for \$45,000 building for National League of American Pen Women, advises project held up. 1-9

N. C., Charlotte—Charlotte Country Club, H. M. Wade, Pres., plans \$250,000 clubhouse.

N. C., Durham—Mrs. M. R. Vickers, 501 Oakwood Ave., rebuild The Pines Tea Room, noted burned.

Okla., Tulsa—Women's Federated Clubs, Mrs. Lilah D. Lindsey, Pres., considering purchasing Tidal Bldg., 6th St. and Cheyenne Ave., and remodeling for club building; tentative plans by R. A. Sebastian, Philtower Bldg., call for auditorium to seat 435, tea room to seat 125, ballroom and banquet hall accommodating 500 people; 38 individual clubrooms, rest room and lounge.

S. C., Spartanburg—Spartanburg Country Club erect building to replace structure noted burned at loss \$35,000. 1-9

Tenn., Chattanooga—Kosmos-Chattanooga Woman's Club, Mrs. Alexander Guerry, Pres., Baylor School, considering erecting clubhouse.

Tenn., Jackson—West Tennessee Fair Assn. rebuild structures recently burned.

Tenn., Memphis—Lake Macon, Inc., J. W. Stone, Fidelity Bk. Bldg., plans summer resort, Bristol Highway and Macon Road; plans include filling station, combination ice and roller skating rink, dance hall, baseball diamond, 9-hole golf course, swimming pool, etc.

Tex., Houston—Tri-City Newsboys Club plans clubhouse.

Va., Fairfax—Groveton Community Club plans clubhouse.

Railway Stations, Sheds, Etc.

Ark., Nashville—Graysonia, Nashville & Ashdown R. R. Co., James H. Skillern, Asst. Gen. Mgr., soon start work on 1-story, brick conc. and stucco station; built-up comp. or tile roof, conc. and wood floors.

Tex., Fort Worth—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, has plans by Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., for \$80,000, 8-story and basement, 100x610 ft. freight station and office building; rein. conc. flat slab construction, brick, cut stone; cement, wood and asphalt block floors; one passenger and 11 freight elevators, 7 stair towers adjoining elevators; also for \$2,000,000, 222x60 ft. passenger station with concourse and concession to rear of main building approx. 58x222 ft.; rein. conc. struc. steel, granite, brick, stone and terra cotta; 5 elevators; heated by means of Dunham Differential System in 2 sections with thermostatic control; 6 lines track and transfer platform. 10-3

Schools

Ala., Atalla—Bd. of Education erect \$75,000 school, Fourth St. and Eighth Ave.

Ala., Jasper—Walker County Bd. of Education, Prof. J. Alex Moore, Supt., plans library; probably cost \$50,000.

Ala., Montevallo—Alabama College, E. H. Willis, Bus. Mgr., receives bids Jan. 28 at office Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham, for \$250,000 Bibb Graves Hall; steel and gypsum roof with slate; gymnasium, swimming pool; shower and locker rooms; 314x60 ft., 2 stories and basement, brick, limestone trim, rein. conc. floor constr.; following contractors estimating: Grahn Construction Co., Red Rock Bldg.; Arthur R. Myers Co., McGlawn-Bowen Bldg., both Atlanta, Ga.; A. C. Samford and Frost Construction Co., both Shepherd Bldg., Montgomery; Lockard & Vaughn, Box 714, Meridian, Miss.; L. C. Ellison Co., Box 400; J. F. Holley Construction Co., 730 Nineteenth St., both Ensley; E. R. Maynard, Box 317, Livingston; Estes-Williams Co., Dermon Bldg., Memphis, Tenn.; Foster & Creighton Co., Protective Life Bldg.; Coston & McEaddy, 3019 Sixth Ave.; W. A. Horton Co., 710 N. 28th St.; A. J. Honeycutt & Co., Martin Bldg.; McQueen & White Building & Investment Co., Am. Traders Bldg.; D. T. Underwood Co., Pioneer Bldg.; Smallman Construction Co., 1109 Avenue E, all Birmingham. 12-12

Ala., Selma—Bd. of School Trustees, Albert Parrish, Pres., erect 2 schools.

Ark., Helena—Bd. of Education, R. T. Doughtie, Pres., plans high and grade school, Columbia St. between Elm and York Sts.

Ark., Magnolia—Columbia County Bd. of Education, Geo. W. Garrett, Supt., plans consolidating Macedonia, Philadelphia, Rocky Mound and Lone Beach Dist. and erect \$10,000, 1-story, brick veneer school in Walkerville Dist.

D. C., Washington—Georgetown University, Dr. W. Coleman Nevils, S. J., Pres., soon

ready for bids for \$600,000, 5-story, 257x48 ft., stone dormitory to be known at Copley Hall, first unit of expansion program including recitation hall and 2 science halls; Gothic architecture; 180 single bedrooms, 142 to have individual bath and showers; basement will provide space for 2 bowling alleys and recreation room; chapel on first floor to seat 250 people; Emile G. Perrot, Archt., 130 W. 42nd St., New York, and 1211 Arch St., Philadelphia; total expenditure, \$2,500,000. 7-25

D. C., Washington—Dept. of Interior, John H. Edwards, Asst. Sec., rejected bids and re-advertised for bids on 5-story, brick Women's Dormitory No. 1, Howard University; A. I. Cassell, Archt. for University. 10-31

Fla., Jacksonville—Yale University, New Haven, Conn., receives bids Jan. 20 for 7 buildings, including laboratory, quarters building for apes, hospital, garage, etc., for an anthropoid colony at Orange Park; buildings to have appearances of small bungalows will be reinforced with stone and steel; station to be under supervision Prof. Robert M. Yerkes. 11-7

Ga., Augusta—Dr. T. F. Abercrombie, State Health Comr., announced purchase of 400-acre farm near Augusta for State School for Mental Defectives at Gracewood; improve present buildings.

Ga., Mount Berry—Berry Schools, Miss Martha Berry, erect \$100,000 building.

Ky., Eddyville—School Bd. erect \$25,000, 10-room brick high and grade school to replace recently burned structure.

La., Monroe—Ouachita Parish School Bd., T. O. Brown, Pres., ready for bids in 30 days for \$125,000, 3-story and basement, rein. conc., brick, stone trim unit at high school; contain cafeteria in basement, auditorium in first and second floors to seat 1300 people; third floor for 9 classrooms; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg. 1-9

Md., Baltimore—Bd. of Public Improvement Comm., H. J. Leimbach, Supvg. Engr., selected Benjamin Frank, 517 N. Charles St., as architect for \$100,000 addition to School No. 113, Federal and Carter Sts. 12-12

Md., Frederick—Raymond I. Ford, Treas., Hood College, advises that Hood College does not contemplate erection of chapel. 1-9

Miss., Cleveland—School Bd. erect high school and repair present buildings; \$60,000 bonds voted.

Miss., Pheba—Trustees of Clay County Agricultural High School, West Point, ready for bids about May for \$11,000, 2-story, 40x60 ft., brick or frame, boys' dormitory; metal roof, wood floors; address Thos. G. Hubbard, Pheba. 1-9

Miss., Rockport—State Dept. of Education, W. G. Eckles, Dir., Jackson, having preliminary plans prepared for \$25,000 building at East Copiah High School.

Miss., Starkville—Agricultural and Mechanical College, M. H. Moore, Sec., rejected bids and decided not to erect warehouse at this time. 1-9

Mo., Dearborn—Bd. of Education, E. G. Stafford, Sec., ready for bids about Jan. 20 for \$35,000, 1-story, 141x120 ft., brick high and grade school; Barrett roof; H. E. Wageneck, Archt., 701 McDonald St., St. Joseph. See Want Section—Building Material and Equipment. 1-2

Mo., Joplin—Missouri College of Agriculture, F. B. Mumford, Dean, improve Hatch Farm for dairy experiment station; improve buildings, erect dairy barn; work under supervision A. C. Ragsdale, head of dairy hortandry department of College. 12-5

Mo., Kansas City—Bd. of Education, George Melcher, Supt., having plans prepared by Charles A. Smith, Finance Bldg., for 11-room additions to Blenheim and Border Star schools. 12-5

Mo., North Kansas City—Clay County Bd. of Education, E. L. Black, Supt., Liberty, soon select architect for schools; \$175,000; brick. 1-9

N. C., Lexington—Davidson County Bd. of Education probably ready for bids in Feb. for \$150,000 consolidated school; auditorium to seat 1000 people; Percy Bloxam, Archt., Salisbury.

Okl., Eufaula—L. R. Carr, Archt., Muskogee, prepared plans for \$15,000, 1 and 2-story, T-shape, 30x70x30x40-ft. dining hall and kitchen at training school for U. S. Bureau of Indian Affairs; bids in.

Okl., Muskogee—School Bd., John W. Porter, Pres., considering erecting addition to Longfellow School.

Okl., Shawnee—Bd. of Education, H. G. Faust, Supt., soon ready for bids for \$150,-

000 improvements to include additions to Jefferson, Horace Mann, Woodrow Wilson and Washington schools; also plans additions to Sr. High School and gymnasium. 1-9

Tenn., Chattanooga—Hamilton County Bd. of Education, Mrs. Harry Lacey, Chmn., approved plans by R. H. Hunt Co., James Bldg., for \$60,000 school on Bryant Road, East Ridge; 8 classrooms, cafeteria, library, clinic room. 6-27

Tenn., Loudon—Loudon County votes Feb. 25 on \$100,000 bonds for school buildings, to be distributed as follows: Loudon, \$31,500; Lenoir City, \$40,500; Greenback, \$7200; Eaton's Cross Roads, \$11,700; Luttrell, \$6300.

Tenn., Memphis—State Bd. of Education, Nashville, select architect Feb. 7 for \$255,000 science building at West Tennessee State Teachers College.

Tenn., Memphis—Roger Williams College for Negroes, Rev. T. O. Fuller, Pres., erect \$100,000 administration building, South Parkway and Bellevue Blvd. 4-18

Tenn., Somerville—Fayette County authorized election on \$100,000 school bonds; plans \$75,000 high school at Somerville and \$25,000 high school at Moscow.

Tex., Amarillo—School Bd. having plans prepared by E. F. Rittenberry, Guy Carlander, both Fisk M. & P. Bldg., J. Ray Smith, Blackburn Bldg., and Kerr & Walsh, Amarillo Bldg., for \$165,000 Jr. High School, \$120,000 addition to McKinley School, \$25,000 Forest Hill School, \$40,000 addition to Pleasant Valley School, \$25,000 manual training unit at Buchanan St. School and \$25,000 armory for military unit; election Jan. 14 on \$500,000 bonds. 1-9

Tex., Austin—University of Texas, J. W. Calhoun, Comptroller, receives bids Jan. 20 for \$25,000, 1-story, 250x31 ft., brick and rein. conc. locker room for Texas Memorial Stadium; R. L. White, Supvg. Archt., University of Texas. 1-9

Tex., Cleveland—Cleveland Ind. School Dist. voted \$60,000 bonds; erect 1-story, fireproof school and repair 12-classroom and auditorium school; McLellan & White, Archts., West Bldg., Houston. 1-2

Tex., Crockett—Crockett Ind. School Dist., I. J. Deck, Supt., having plans prepared by Arthur E. Thomas, Construction Industries Bldg., Dallas, for \$100,000, 2-story, brick, rein. conc., fireproof, 13-room and auditorium high school. 1-2

Tex., Crystal City—School Bd. E. L. Addison, Pres., receives bids Feb. 7 for \$80,000, 1 and 2-story, brick, tile and conc. high school with 1-story, 65x223 ft. wing; tentative date of election on bonds about Feb. 1; Will N. Noonan Co., Archts., Builders Exchange Bldg., San Antonio.

Tex., El Paso—Bd. of Education, J. Walter Morrow, Pres., receives bids Jan. 20 for \$275,000, 2-story and basement, brick, rein. conc. fireproof high school; Braunto & McGhee, Archts., First Natl. Bank Bldg.; Guy L. Frazer, Ass. Archt., Martin Bldg. 10-22

Tex., Mathis—Mathis Ind. School Dist. votes Jan. 25 on \$45,000 bonds to remodel school, erect first unit of high school. 1-9

Tex., San Antonio—Bd. of Education, Dr. J. A. McIntosh, Pres., has low bid at \$57,000 from Falbo & Guido for 13-room and assembly hall addition to J. T. Brackenridge Memorial School No. 21; John M. Marriott, Archt., Frost Bk. Bldg.; W. E. Simpson & Engrs., Milam Bldg. 1-2

Tex., San Antonio—Bd. of Education, Dr. J. A. McIntosh, Pres., has low bid at \$80,891 from H. A. Miller, Builders Exch. Bldg., for 2-story and basement, 16-room and assembly hall, Spanish type, fireproof Wm. B. Travis School No. 13; Braden-Hudson-Wangler, 302 E. Commerce St., low bid at \$7450 on plumbing and heating; Loyd-Peale & Dittmar, 1205 Houston St., electrical, \$1689; L. Harrington Co., Archt. Engr., Builders Exchange Bldg.; Phelps & Dewees, School Archts., Hicks Bldg. 1-9

Tex., Sonora—Bd. of Education, L. W. Elliott, Pres., receives bids Jan. 29 for \$125,000, 2-story, brick and rein. conc., 12-classroom and auditorium high school; Anton F. Korn, Archt., Thomas Bldg., Dallas; Crews Alexander, Asso. Archt. 12-26

Tex., Spring—Trustees of Rural High School Dist. No. 1 called election Jan. 25 on \$30,000 bonds for high school between Spring and Bammel; McLellan & White, Archts., West Bldg., Houston.

Tex., Stockdale—Stockdale Ind. School Dist. Trustees plan school building; election Jan. 14 on \$42,000 bonds.

Tex., Sweetwater—City votes Jan. 26 on \$180,000 bonds for school buildings and improvements; C. R. Simmons, Pres., Bd. of Education; W. R. Griffin, Archt., Box 583. 1-9

Tex., Tomball — Common School Dist. No. 1 votes on Jan. 30 on \$30,000 bonds for consolidated high and grammar school between Houston and Tomball; W. G. Smiley, Harris County Supt. of Education, Houston.

Va., Harrisonburg — Harrisonburg State Teachers' College considering erecting \$250,000 administration building.

Va., Richmond — Bd. of Education having plans prepared by Chas. M. Robinson, Inc., Times-Dispatch Bldg., for \$375,000 elementary school, Floyd Avenue and Nansemond street.

Va., Westhampton, Richmond — Henrico County Bd. of Education, J. Milton Shue, Supt., erect \$90,000, 3-story and basement annex to Westhampton High School; 10 rooms, laboratory, home economics department, cafeteria, auditorium to seat 1000, gymnasium, terrazzo and wood floors. 7-25

Stores

Ala., Bessemer — J. P. Renner, 1733 Carolina Ave., plans to rebuild structure noted burned at loss \$10,000. See Want Section—Building Material and Equipment. 1-9

D. C., Washington — Boston Ground Rent Trust erect 2-story brick building, 12th and F Sts., to be occupied by Peoples Drug Stores, Inc., 77 P St., N. E.

D. C., Washington — W. S. Plager, Archt., 1930 Kearney St., N. E., prepared plans for \$18,000, 2-story, brick store and apartment, 17th St. and Rhode Island Ave., N. W.

Fla., Orlando — McCormick-Hanna, Inc., W. Jefferson St., soon call for bids for \$60,000, 2-story and basement, 60x110 ft., rein. conc., brick store to be leased to Sears Roebuck & Co., Chicago; Indiana limestone trim, built-up roof; Nimmons, Carr & Wright, Archts., 333 N. Michigan Blvd., Chicago. 10-3

Ky., Paducah — Louis Looofsky rebuild store noted burned.

Miss., McComb — V. C. Dickey and H. P. Marsalis having plans prepared for buildings to replace structures on State St. noted burned at loss \$50,000; type of buildings to be erected not determined. 1-9

N. C., Charlotte — Roark Jewelry Store, N. Tryon St., expend \$15,000 for improvements.

S. C., Blackville — Simon Brown's Sons plan to rebuild store noted burned at loss \$35,000.

Tenn., Memphis — J. W. Cooley, 100 Hernandon St., plans 1-story, brick store, Southern and Buntyn Sts.; comp. roof, conc. and wood floors.

Tenn., Nashville — Cain-Sloan & Co., (department store) 209 Fifth Ave., N., expend \$250,000 for improvements; remodel building, install store fixtures and equipment, new heating system, 3 passenger and one service elevator; begin work about Jan. 20.

Tenn., Nashville — Mrs. H. W. Timothy, 2508 Murphy Rd., erect \$10,000 store, 2919 West End Ave.

Tex., Beaumont — J. H. Phelan, 585 4th St., erect commercial building, Calder and Magnolia Aves.

Tex., Fort Worth — P. M. Trust, 3816 Tulsa Way, has low bid from B. B. Adams, First Natl. Bk. Bldg., for \$12,000, 1-story and part basement, 40x80 ft., brick and stone business building, 813 Lamar St.; kalamata doors, tile floors, gas steam radiation heat; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg.

Tex., Fort Worth — A. S. Whitley, 3645 Travis St., erect 1-story, 50x75 ft., brick veneer store, 4900 Hemphill St.; tile and built-up roof, wood and conc. floors; Ben B. Milam, Archt., W. T. Waggoner Bldg.

Tex., Houston — J. L. Jones, Cotton Exch. Bldg., erect business building, 1602 Caroline St.

Tex., San Antonio — Robt. Thompson & Co., Majestic Bldg., erect \$10,500, 1-story, 102x65 ft., brick, tile and conc. s tore, 2512-18 San Pedro St.; Marvin Eichenroth & Bartlett Cooke, Archts., Maverick Bldg.

Tex., Sherman — Carl R. Nall reconstruct building, 103 S. Travis St., to be leased to Mangels, Inc., 1115 Broadway, New York; \$20,000, 25x100 ft.

Theaters

Mo., Flat River — Roseland Theatre Co., G. Karsch, erect \$100,000, 2-story, brick theatre on Main St.; Kennery & Stiegemeyer, Archts., Title Guaranty Bldg., St. Louis.

Mo., Kansas City — Westbrook Investment Co., David M. Proctor, Pres., 1107 Federal Reserve Bk. Bldg., erect theater, 75th St. and Troost Ave.; seat 1500 people; 6 shops; also erect 6-shop building adjoining; Albert B. Fuller, Archt., 902 Orear Leslie Bldg.

Warehouses

Ga., Douglas — McLean & George, J. H. McLean, erect addition to warehouse.

Miss., Jackson — Crane Company, 836 S. Michigan Ave., Chicago, soon ready for bids for \$20,000, 1-story, rein. conc. and brick warehouse, W. Gallatin St.; conc. floors, built-up roof; N. W. Overstreet, Archt., Miss. Fire Insurance Bldg.

N. C., Asheville — Buncombe Tobacco Warehouse Co., Inc., chartered with \$100,000 capital; Archibald Nichols, 333 Montford St.; plans warehouse; \$25,000.

Tenn., Chattanooga — James Supply Co., F. C. Bickers, Pres., 1104 Market St., receives bids Jan. 21 for 4-story, 100x115-ft. brick warehouse, 11th and Foster Sts.; freight loading platform; R. H. Hunt Co., Archt., James Bldg.

Tex., Houston — Leon D. Kattache and O. L. White have permit for \$16,500, hollow tile warehouse, 615 Brooks St.

Tex., Houston — Cross & Co. (ship chandlers), Maude Davis Cross, Pres., Cotton Exchange Bldg., erect warehouse, Harrisonburg Blvd. and 75th St.

W. Va., Weston — M. B. Sprigg erect 50x100 ft., brick and tile warehouse on Depot St. to be occupied by West Virginia Farm Bureau Cooperative Assn.

comp. floors, comp. roof; Chas. M. Robinson, Inc., Archts., Times-Dispatch Bldg. 12-12

City and County

Miss., Greenville — Washington County Bd. of Supervs. receives bids until Feb. 3 for alterations and additions to courthouse and jail; fireproof annex, brick and conc., \$90,000; J. M. Spain, Archt., Millsaps Bldg., Jackson. 12-12

Tex., Midland — Midland County Bd. of Commrs., M. R. Hill, Judge, let contract to J. O. Everett Co., 1909 N. Harwood St., Dallas, for rein. conc. brick and stone courthouse; 5 stories, about 70x130 ft., metal lath, marble, steel doors and windows, interior oak trim, tile, terrazzo, cement and linoleum floors; jail equipment; Voelker & Dixon, Inc., Archts., Perkins-Snider Bldg., Wichita Falls. 12-19

Dwellings

Ala., Birmingham — R. L. Bowron, 1827 Pike Ave., let contract to L. E. Ford & Co., Mountain Brook Village, for \$35,000 residence, Rockridge Park; stone and half-timber, 2 stories, slate roof, vapor heat; Turner & Slater, Archts., Martin Bldg. 12-12

Ark., Arkadelphia — Arthur J. Vestal started work on brick veneer and hollow tile residence and garage, Fifth and Cherry Sts.; 2 stories and basement, oak and tile floors, tile roof, 24 rooms, including baths and sun parlors; owner builds.

Ark., Little Rock — Sun Building & Developing Co., 1801 N. Monroe St., erect \$20,000 residence, 23 Edgehill Rd.

Ark., Piggott — Sam R. Raybourn erecting frame residence, 1 story, 5 rooms, pine floors, comp. shingle roof; owner builds.

D. C., Washington — Mrs. A. F. Hassan, 3528 Quebec St., N. W., erect \$25,000 residence and garage, 3209 R St., N. W.; brick, 2½ stories; Parks & Baxter, Archts., 1800 E St., N. W.; W. D. Sterrett, Contr., 35th and Rodman Sts.

D. C., Washington — Wm. Montgomery, 5000 Daniels Road, erect \$100,000 residence, Daniels Rd. and Nebraska Ave., N. W.; stone, 2½ stories; Bradbury & Mohler, Contrs., 923 Fifteenth St., N. W.

Fla., Daytona Beach — E. L. King, Winona, Minn., and 1235 S. Atlantic Ave., Daytona Beach, let contract at \$116,845 to T. K. Agar, 500 N. Peninsular Drive, Daytona Beach, for winter residence; rein. conc. hollow tile, 2 stories, 35 x 100 ft., L shape, tile and wood floors, tile roof, 4-car garage; Kiehnell & Elliott, Archts., Seybold Bldg., Miami, Fla. 12-28

Fla., Miami — Mrs. Geo. Bunnell, 46 N. 47th St., erect \$11,000 residence, 587 N. E. 58th St.; rein. conc. conc. block and stucco, 2 stories, 63x30 ft., 20x28-ft. garage, wood and tile floors, tile baths, wood sash; owner builds.

Fla., Miami Beach — J. C. Devine Properties, 1337 Collins Ave., let contract for \$25,000 dwelling, Pine Tree Drive and W. 33rd St. to F. H. Foster, 125 S. W. 19th Ave., Miami; tile and stucco, 2 stories, conc. and tile floors, tile roof; E. L. Robertson, Archt., Calumet Bldg., Miami. 1-9

La., New Orleans — Phillip Schneller, Contr., 4141 Orleans St., erect double dwelling, 8th St. near Chippewa St.

La., New Orleans — Geo. Kast, 4701 Palmyra St., let contract for \$10,000 residence to A. M. Pumilla, 823 Perdido St.; pressed brick veneer, 1 story and basement, about 32x60 ft., oak floors, tile roof; A. M. Pumilla, Archt., Balter Bldg. See Want Section—Building Material and Equipment. 1-9

La., New Orleans — Mrs. H. F. Carriere erect double residence, Franklin St., near Galvez St.; Geo. Stoll, Jr., Contr., 2510 Eads St.

La., New Orleans — Paul Dutel, 1219 Elysian Fields, erect single raised residence and 3 garages, Franklin St., near Sage St.; O. F. Harang, Contr., 5063 Milne St.

La., Shreveport — Geo. D. Wray, 320 Market St., let contract at \$55,505 to K. C. Wilson, Slattery Bldg., for hollow clay tile and stucco residence; 2 stories and basement, wood and cement floors, conc. foundation, tile roof; Edw. F. Neild, Archt., City Bk. Bldg. See Want Section—Building Material and Equipment. 1-9

Md., Baltimore — E. J. Gallagher Realty Co., 3501 Ednor Rd., plans 23 brick dwellings, 3700 Rexmere Rd. 2 stories; \$140,000; owner builds.

Md., Baltimore — Clyde A. Clapp, 513 N. Charles St., erect \$15,000 residence, 300 E. Cold Spring Lane, Kernwood; stone, 2½

BUILDING CONTRACTS AWARDED

Bank and Office

Ky., Saint Matthews — J. F. Russell & Co., Contrs., purchased 2-story garage bldg.; 100x200 ft.; remodel for offices and stores.

Md., Baltimore — National Central Bank, Baltimore and Holliday Sts., let contract at \$135,000 to Consolidated Engineering Co., Inc., 20 E. Franklin St., to remodel bldg.; install safe deposit boxes and vaults in basement, alter first floor for banking quarters; about \$200,000; Smith & May, Archts., Calvert Bldg.; Chas. L. Reeder, Const. Engr., 916 N. Charles St. 11-7

Md., Rockville — Farmers Banking & Trust Co. erect \$100,000 bldg.; fireproof, brick, steel, conc. and limestone, 2 stories, 46x68 ft.; Tilghman-Moyer Co., Archt.-Engr., Contr., Allentown, Pa. 1-9

Miss., Vicksburg — Mississippi River Coms., 815 Olive St., St. Louis, Mo., started work on \$75,000 office bldg. near Johnston Circle, National Military Park; owner builds under supervision of B. F. Ellison; brick and conc., 1 story, about 150 ft. long with two 60-ft. wings, comp. shingle roof, Masonite partitions. 12-19

Churches

Ga., Atlanta — Moreland Ave. Baptist Church

let contract to F. H. Turnipseed, 345 Tenth St., N. W., for \$25,000 bldg.; brick and stucco, 2 stories and basement, conc. foundation, comp. roof; N. Sargent Hamilton, Archt., 2 Spring Lake Drive, N. E. 1-2

Tex., Fort Worth — San Jose R. C. Church, Rev. Eugene Herran, Pastor, 1423 N. Calhoun St., having plans drawn by Leo M. J. Dielmann, 306 E. Commerce St., San Antonio, for \$20,000 bldg., N. Commerce and N. 14th Sts.; brick, 1 story and basement. 12-28

Tex., Fort Worth — Following contracts let on \$1,000,000 First M. E. Church: Millwork & Co., W. T. Waggoner Bldg.; misc. iron, Southern Ornamental Iron Works, Boaz and E. Front St.; metal doors and windows, Collinsville Mfg. Co., 1003 E. Front St.; lumber, Bucy-Ingram Co., W. T. Waggoner Bldg., all Fort Worth; form work, Concrete Engineering Co., Construction Indus., Bldg., Dallas; plastering, Walter Plaster Co., 236 Railway Exchange Bldg., Kansas City, Mo.; face brick, cut stone, roofing not let; W. G. Clarkson & Co., Archts.; Harry B. Friedman, Contr., both First Natl. Bk. Bldg., Fort Worth. 12-31

Va., Richmond — Centenary Methodist Church let contract to John T. Wilson Co. for \$70,000 addition; Gothic type, brick, 3 stories, 120 ft. deep, wood and linoleum or

stories; Palmer & Lambdin, Archts., 513 N. Charles St.; Clifton K. Wells, Jr., Contr., 3538 Old York Rd.

Md., Baltimore—Dr. O. C. S. Wallace, 4104 Springdale Ave., erect 2-story brick residence, Sulgrave Ave., Hill Top Park; Brooklyn-Curtis Bay Land Co., Contr., Munsey Bldg.

Md., Baltimore—A. W. Norton, 800 W. Lake Ave., erect \$11,000 residence, 800 Lake Ave.; brick and stone, 3 stories, 40x30 ft., tile roof, oak floors, hot water heat; A. F. Worthington, Archt., 12 E. Pleasant St.; Thos. Hicks & Sons, Inc., Contrs., 106 Madison St.

Md., Baltimore—John J. Hurst, 413 St. Paul Place, erect 3 frame dwellings and garages, 3300-04 Parkington Ave.; 1½ stories, 26 x 30 ft. and 10 x 18 ft., hot water heat; \$10,000; J. K. Vickers, Archt.; owner builds.

Md., Baltimore—Mrs. J. Henry Judik, 2413 Ken Oak Rd., erect \$20,000 residence, St. Paul St. and Wendorf Rd., Guilford; brick, 2½ stories, 12 rooms, 3 baths; Wrenn, Lewis, Westenhaver & Jencks, Archts., Title Annex Bldg.; Henry T. Sorrell & Sons, Contrs.

Md., Baltimore—Clifton K. Wells, Jr., Bldr., 3538 Old York Rd., erect dwellings, Roland Ave. near St. Johns Rd., Roland Park; brick, 2 stories; also erect 2-story stone dwelling, 3707 Greenway, Guilford; 2-car garages; \$50,000; Palmer & Lambdin, Archts., 513 N. Charles St.; owner builds.

Mo., Clayton, St. Louis—J. M. Baggot, 3204A Dodier St., erect \$13,000 residence, 739 Moordians Drive; brick, 42x32 ft., slate roof, vapor heat; R. Schoening, Archt., 3204A Dodier; E. S. Schooley, Contr., 6038 Delmar Ave.

Mo., Independence—G. D. Cook, 1125 S. Van Horn Rd., plans about 12 dwellings during 1930; plans and constr. by owner.

Mo., Kirkwood, St. Louis—Chas. R. Greene, Archt., Wainwright Bldg., completed plans for 2 brick dwellings, Argonne Drive; 1 story and basement, 26x30 ft., tile baths, hardwood floors, asphalt shingle roof, hot air heat; work by sub-contract.

Mo., St. Louis—J. P. Fendler, 5615 Lissette St., erect 2 brick dwellings, 5114-18 Grace St.; 1 story, 25x46 ft., asphalt shingle roofs, hot air heat; \$10,000; A. F. Stauder, Archt., 3008 Gravois St.; owner builds.

Mo., St. Louis—B. G. Brunner, 6000 Clemens Ave., let contract to Parnell Quick, 240 W. Big Bend Blvd., for \$20,000 residence, Rock Hill Rd.; brick, 2 stories and basement, 34x35 ft., hardwood floors, tile bath, slate roof, hot water heat; E. E. Christopher, Archt., Louderman Bldg.

Mo., University City, St. Louis—Roy O. Finch, 7264 Stanford St., erect \$10,000 residence, 7269 Princeton St.; brick, 2 stories, 30x37 ft., concrete foundation, tile roof, steam heat; owner builds.

Mo., Webster Groves, St. Louis—A. H. Stein, 451 Summit Ave., erect \$12,000 residence, 411 W. Swan Ave.; brick, 2 stories and basement, 29x45 ft., hardwood floors, tile bath, comp. shingle roof, probably hot water heat; E. A. Stein, Contr., 6585 Kingsland Ave.

Mo., Webster Groves, St. Louis—Margaret Flynn, 451 Hollywood Court, erect \$10,000 residence; brick, 1½ stories and basement, 29x49 ft., tile bath, hardwood floors, comp. shingle roof, hot air heat; A. H. Peters, Contr., 4150 Utah Place.

Okl., Oklahoma City—G. A. Nichols, Inc., 115 N. Harvey St., started work on 9 dwellings, Lincoln Terrace; \$200,000 to \$250,000; also started work on 10 dwellings, Nichols Hills; English, Colonial and Spanish types, brick, stone and stucco; plans for number of latter drawn by Philip Resnyk, 140 W. 42nd St., New York; additional dwellings planned.

Tex., Houston—Katherine B. Mott, Bldr., erect \$30,000 dwelling, 3263 Del Monte St.; 7 rooms, 4 baths.

Tex., Houston—Dr. J. G. Flynn, Medical Arts Bldg., let contract at \$17,000 to Jas. M. L. West for residence; hollow tile and stucco, 2 stories, 30x60 ft., wood floors, wood shingle roof; Chas. S. Chase, Jr., Archt., both Post-Dispatch Bldg.; foundation in.

Tex., Pharr—C. C. Ticknor erect \$15,000 residence; contract let.

Government and State

D. C., Washington—Office of Public Buildings and Public Parks of National Capitol, Lt.-Col. U. S. Grant, 3rd, Director, let contract to Chas. H. Tompkins Co., 1608 K St., N. W., to rebuild Executive Offices of White

House lately damaged by fire; \$75,000; reconstruct roof and attic in struct. steel and conc., repair remainder.

1-9

D. C., Washington—Office of Public Buildings and Public Parks of National Capital let contract to Arthur L. Smith Co., 2539 Pennsylvania Ave., N. W., for \$40,000 fire-resistant vault in rear of Temporary Bldg. D, Sixth St. near Missouri Ave., N. W.; for Bureau of the Census; rein. conc. and hollow tile, 3 stories; first floor about 74x68 ft.; 56x68 ft. above; conc. floors, built-up roof over conc. slab, elect. lights, steam heat, freight elevator, automatic sprinkler system.

Fla., Tallahassee—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract to C. E. Kellogg Co., 1829 N. May St., Joliet, Ill., for alterations to lobby and relocation of work room screens, etc., post office.

12-12

Tex., Dallas—Additional firms have contracts on \$1,250,000 post office for which N. P. Severin Co., 222 W. Adams St., Chicago, Ill., has gen. contract; Acme Brick Co., N. P. Anderson Bldg., Fort Worth; American Transfer & Storage Co., 2615 Elm St.; Federal Glass & Paint Co., 2001 N. Lamar St.; L. K. Platt, 2103 Madena St.; Vilbig Bros., 2517 Eaken St., all Dallas; Concrete Engineering Co., Omaha, Neb.; Permanent Waterproofing Co., 122 S. Michigan Blvd.; Patent Scaffolding Co., 1550 Dayton St.; Concrete Steel Co., 53 W. Jackson St., both Chicago, Ill.; Wm. Wilby, Selma, Ala. 8-29

Hospitals, Sanitariums, Etc.

Fla., Key West—Treasury Dept., Washington, D. C., let contract to J. S. Dongo, 323 Elizabeth St., Key West, for repairs, remodeling and enlarging work, U. S. Marine Hospital.

Md., Baltimore—American Bridge Co., 71 Broadway, New York, has contract for 1200 tons fabricated struct. steel for \$1,750,000 medical and surgical clinic for Johns Hopkins Hospital; Jos. Evans Sperry, Herbert G. Crisp and Jas. R. Edmunds, Jr., archts., all Calvert Bldg.; Herman F. Doelman, Struct. Engr., 516 N. Charles St., all Baltimore; Buerkel & Co., Inc., Plumbing-Heating Engrs., 24 Union Ave.; Hixon Electrical Co., Elect. Engr., 308 Dover St., both Boston, Mass.; Consolidated Engineering Co., Inc., Contr., 20 E. Franklin St., Baltimore

11-28

Tex., Beaumont—Following sub-contracts let on \$175,000 addition to Beaumont General Hospital: Millwork, Gulf Manufacturing & Lumber Co., 1600 North St., bldg. material, gravel, cement, sand and lime, Beaumont Building Material Co., 600 Pine St., cast stone, Atme Stone Co., Goodhue Bldg.; elect. work, Neches Electric Co., 618 Pearl St.; elevator and dumb waiter, Otis Elevator Co., Keith Bldg.; all Beaumont; tile and terrazzo, Union Art Mosaic Tile Co.; 1208 York Road; rein. and struct. steel, Houston Structural Steel Co., 3910 Washington St., both Houston; Livesay & Wiedemann Archts., San Jacinto Life Bldg.; Herman Weber, Contr., Perlstein Bldg., both Beaumont.

1-9

Hotels and Apartments

Fla., Bradenton—Manatee River Hotel, J. A. Walton, Mgr., started work on \$10,000 improvements to hotel; G. A. Hanson Co., Inc., Contr., 215 Madison St., Tampa.

Fla., Miami Beach—Mrs. Eva M. Rivard started work on \$10,000, 2-story, 30x100 ft., rein. conc. and conc. block, 30-room hotel, 710 First St.; Charles G. Bateman, Contr., Box 2347; Wm. A. Bennett, Archt., Real Estate Bldg., both Miami.

Mo., Clayton, St. Louis—Ben Goldberg, 5845 Terry Ave., has permit for four \$20,000, 40x73-ft. brick apartments, 314-18-22-26 Hanley Road; tile roofs, steam heat; Ben Shapiro, Archt., Syndicate Tr. Bldg.; owner builds.

Mo., Kansas City—Kansas City Structural Steel Co., 21st and Metropolitan Ave., has contract for 1250 tons steel for 20-story Phillips Hotel, 12th St. and Baltimore Ave., for Phillips Hotel Operating Co., C. E. Phillips, Pres., Victor Bldg.; John S. Sweet Hotel Co., Lessee, Topeka, Kans.

11-28

Mo., St. Louis—Richard J. Cross, 4924 Thrush Ave., erect \$10,000, 2-story and basement, 24x42 ft. brick apartment, 4525 Queens Ave.; comp. roof, tile bath, hardwood floors, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—Kraeger-Belsiek Realty Co., care Security Construction Co., Contr., Paul Brown Bldg., erect 2-story and basement, and rubble stone 8-apartment, Hampton and Hartford Sts.; Russell Conzelman, Archt., Calumet Bldg.

Tex., Beaumont—L. J. Kopke, 993 Liberty St., erect \$17,000, 2-story, brick, 6-apartment building, South and Ninth Sts.; H. C. Bauer, Archt., 950 Spruce St.; Reynolds Brothers, Contrs.

12-5

Miscellaneous

Md., Baltimore—A. O. Kruger, 12 S. Calvert St., remodel and erect addition to brick building on E. Baltimore St. near Guilford Ave., for restaurant; Frederick Thomas, Archt.-Contr., 726 E. 33rd St.

Tex., Fort Worth—D. O. Marshall, 715 Ninth Ave., has contract for \$25,000 club-house; colonial type, 2 stories and basement, comp. roof; Earl T. Glasgow, Archt., First Natl. Bk. Bldg.

Tex., Fort Worth—John J. Harden, Petroleum Bldg., Oklahoma City, care Geo. Veeder, Fort Worth Natl. Bk. Bldg., let contract at \$117,302 to Quisle & Andrews, 2212 W. 7th St., Fort Worth, for \$250,000, 1-story and part basement, market, Henderson and El Paso Sts.; 148x131 ft. with 59x20 ft. sheds; brick and conc. with terra cotta trimmings and panels; B. G. Noffsger, Archt., 2732 W. 19th St., Oklahoma City.

11-7

Tex., San Antonio—K.C. Baker, Fredericksburg Road, let contract at \$36,215 to John Westerhoff, Milam Bldg., for 1-story barn buildings including barns, cow sheds, wagon sheds, etc.; natural rock construction; Atlee B. & Robt. M. Ayres, Archts., Smith-Young Tower.

Tex., San Antonio—Osmos Stables, Inc., R. W. Morrison, Frost Natl. Bk. Bldg., let contract, on cost plus basis, to Woodward & Hardie, Inc., 230 Seguin St., for 1-story, 68x160-ft. building to accommodate 50 horses, offices, lockers; Marvin Eickenroth & Bartlett Cocke, Archts., Maverick Bldg.; Beretta-Stiles Co., Inc., Engr., Natl. Bk. of Commerce Bldg.

12-5

Schools

Ark., Clarksville—College of the Ozarks, Dr. Wiley Lin Hurie, Pres., soon start work on rebuilding science hall recently destroyed by fire; \$35,000, 3 stories and basement, brick and conc., comp. roof, wood floors; A. O. Clarke, Archt., Rogers; Gomer E. Kraus, Contr.

12-26

Md., Baltimore—Seton High School for Girls (formerly St. Joseph's School of Industry), Sister Genevieve, 2800 N. Charles St., let contract to Henry L. Maas & Sons, Inc., 1119 Ensor St., for \$250,000, 3-story, 85.8x156 ft., brick and stone building containing assembly hall, classrooms and gymnasium; Francis E. Tormey, Archt., 2 E. Lexington St.

12-19

Miss., Oxford—Mississippi Building Comns. W. C. Trotter, Sec., Jackson, let following contracts for improvements at University of Mississippi: Landscape development and raising football field, \$30,170, Westerfield & Weeks, Lamar Bldg., Jackson; furniture and equipment of law school, \$15,558, Mississippi School Supply Co., 120 E. South St., Jackson; kitchen equipment for cafeteria building, \$5131, The Van John Range Co., 28th and Robertson Sts., Cincinnati, O.; also let contract at \$4370 to Thompson Electric Co., 63 S. Third St., Memphis, Tenn., for electric distribution system at Mississippi School for Feeble-minded, Ellisville; Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson.

1-2

Oka., Tulsa—Bd. of Education, Cecil L. Henry, Pres., let contract at \$25,740 to Manhattan Construction Co., Court arcade Bldg., for 1-story, 38x110 ft., brick and tile manual training shops for Roosevelt Jr. High School; Leland I. Shumway, Archt., Alexander Bldg.; B. F. Cook, Consig. Engr. 1-9

Tenn., Bristol—Bd. of Education let contract at \$48,690 to C. J. Kingsolver, Box 548, Bristol, Va., for West End Elementary School; G. M. & G. C. Stone, Archts. Lately noted awarded to Kingsolver Construction Co.

12-26

Tenn., Crossville—Cumberland County Bd. of Education let contract to Mark K. Wilson Co., Power Bldg., Chattanooga, for \$125,000, 2-story and basement, rein. conc., brick and tile school; comp. roof, stone trim; R. H. Hunt & Co., Archts., James Bldg., Chattanooga.

12-19

W. Va.—Institute—State Bd. of Control, James S. Lakin, Pres., Charleston, let contract at \$114,900 to G. C. Johnson Construction Co., Inc., Welch, for vocational building and at \$12,000 to Alford Sayre 35 Gardner St., Charleston, for general barn at West Virginia State College; former brick stone trim, fire-proof, linoleum, terrazzo and conc. floors, built-up roof, steam heat; V. C. Pettit, Archt., Kanawha Bk. & Trust Bldg., Charleston; latter 36x92 ft., frame, asbestos shingle roof; silo 10x26 ft.; John C. Norman, Archt., K. P. Bldg., Charleston.

12-12

Stores

Ga., Atlanta—Asa G. Candler, Inc., let contract to Carr Construction Co. for \$10,000 improvements to building, 244 Peachtree St., N. W.; interior changes, millwork, painting, shelving, marble front, plate glass, store fronts; George Harwell Bond, Archt., all Candler Bldg.; Weindorfer, Inc., 667 Peachtree St., N. E., Lessee.

Md., Baltimore—Baltimore Salesbook Co., 3132 Frederick Ave., erect \$15,000, 1-story, 100x60 ft., brick and steel building, 3126 Frederick Ave.; DeCou & Chidlaw, Bldrs., Eutaw & Biddle Sts.

Miss., Belzoni—Joe Goldberg started work on two 23x80-ft. stores on Hayden St.

Mo., Kansas City—J. C. Nichols Investment Co., Meyer Blvd. and Ward Parkway, erect \$25,000, 1-story brick store; E. W. Tanner, Archt., care owner.

N. C., Asheville—National Bellas Hess Co., Inc., 207 W. 24th St., New York, let contract to L. L. Merchant Construction Co., Biltmore Ave., Asheville, for \$60,000 improvements to Temple Court Bldg., for department store; 4 stories, 53x130 ft., built-up roof, oak floors; Dave Steel Co., Asheville, steel contract; S. Grant Alexander, Archt., 113 College St., Asheville. See Want Section—Building Material and Equipment. 12-19

Tenn., Memphis—Brinkley Snowden, 1397 Central Ave., let contract to Memphis Construction Co., 160 Union Ave., for \$20,3000 improvements to store, 145-49 S. Main St.; Hunker & Cairns, Archts., Court Square Bldg.

Tex., Corpus Christi—H. E. Luter let contract at \$21,822 to H. E. Woodruff, Nixon Bldg., for 2-story, 51.6x70 ft., brick, rein. conc., stucco and hollow tile store and apartment, Mesquite and Scharzel Sts.; wood, tile and conc floors, built-up roof; Hamon & Co., Archts., Medical-Professional Bldg. 1-9

Tex., Fort Worth—McCullough Estate, H. C. Nowlin, Burk Burnett Bldg., expend \$40,000 to remodel building; J. H. Whalen, 1824 Hurley St., contract for portion of work; new steel columns, plastering, trim, plate glass.

Tex., Lockhart—S. H. Brown let contract at \$11,750 to W. C. Eads, Lockhart, to remodel, and erect 1-story, 40x50 ft., addition to building; hollow tile, rein. conc., stucco, cast stone, conc. floors; Jeremiah Schmidt, Archt., Box 157, New Braunfels; Beretta-Stiles, Inc., Engr., Natl. Bk. of Commerce Bldg., San Antonio. 1-2

Va., Richmond—Max Wetzel, 1519 Chamberlayne Ave., has contract to erect store, Robison St. and Kensington Ave., to be occupied by Kingsland Land Co.

Theaters

Mo., Marceline—A. B. Cantwell let contract to Fred Wolfskill for \$40,000, 3-story, brick theatre; started excavating. 1-2

Warehouses

Fla., Jacksonville—Crane Company, 836 S. Michigan Ave., Chicago, P. Z. Huddleston, Fla. Mgr., 146 Powell Place, let contract to Geo. D. Auchter Co., 600 E. 4th St., Jacksonville, for \$100,000, 3-story, 105x105 ft., rein. conc., struc. steel, brick and tile office and sales building, Bay and Lee Sts.; Marsh & Saxelby, Archts., Consolidated Bldg., Jacksonville; heating, Walter Denson, 2916 Olga Place; plumbing, Charles Koegel, Forest St., South Jacksonville; electrical, Frank B. Miller, 415 W. 29th St.; elevators, Otis Elevator Co., 225 Liberty St.; refrigerating system, Frigidaire Co., Union Terminal Bldg., all Jacksonville; Zenithern, Zenithern Co., 110 E. 42nd St., New York. 11-28

Mo., St. Louis—National Bedding Co., Nathan Morse, Pres.-Treas., 1820-22 Morgan St., soon start work on \$10,000, 1-story, 25x140 ft., brick warehouse and salesroom, 1818 Morgan St.; tar and gravel roof, steam heat; W. F. Vickery, Contr., 1031 Big Bend Blvd.

S. C., Spartanburg—Standard Oil Co. of New Jersey, 26 Broadway, New York, let contract to C. M. Guest & Son, Anderson, for \$35,000, 2-story, 60x100 ft., rein. conc. and brick warehouse and office; comp. roof; plans by owner's engineering dept.

Tex., Corpus Christi—Alamo Iron Works, 130 Santa Clara St., San Antonio, let contract to Chas. F. Runck, 1520 Water St., Corpus Christi, for 1-story and basement, 65x100 ft., steel frame and galvanized iron warehouse; conc. basement and floors; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 1-9

Trade Literature

Southwest Virginia.—An industrial survey of a number of counties of Southwest Virginia has recently been made for Southwest Virginia, Inc., Wytheville, by the Engineering Extension Division of the Virginia Polytechnic Institute, Blacksburg. Data relating to the several counties are set forth in individual publications, presenting interesting and valuable information, with numerous illustrations. Reports have been made on Carroll, Giles, Grayson, Montgomery County and the city of Radford, Pulaski, Roanoke, Washington, Wise and Wythe counties.

Steel Treating.—Steel Treating Instrument Data Book is the title of new publication issued by the Brown Instrument Company, Philadelphia, Pa. It presents an illustrated summary of 23 different heat treatment processes where temperature control is important, covering annealing, hydrogen copper brazing, carburizing, etc. Each process is briefly described in a discussion of the important part played by automatic control pyrometer equipment in modern heat treating operations.

Public Utility Industry.—A comprehensive study of the public utility industry, including individual studies of electric light and power, gas, telephone and telegraph and water, is presented in a booklet issued by Pynchon & Co., New York, Chicago and London. The survey was prepared by C. M. Withington, who concludes that the public utility industry will expend more than \$2,000,000,000 in 1930, the largest expenditure for a single year, and of the total, the electric light and power companies will expend \$865,000,000 for expansion purposes.

Statistical Abstract.—The United States Department of Commerce, Bureau of Foreign and Domestic Commerce, has completed its statistical abstract of the United States for 1929. The volume contains 868 pages and its comprehensive character is indicated by the following partial outline of its contents: Manufacturing and mining industries, commerce, agriculture, forest and fisheries and miscellaneous topics. The book may be purchased for \$1.00 from the Superintendent of Documents, Washington, D. C.

Generating Sets.—Bulletin No. 106 issued by the Engberg Division of the Troy Engine & Machine Co., St. Joseph, Mich., is devoted to improved generating sets for stationary service, direct current, two or three wire. These sets are described as compact and of simple construction, with low steam consumption, economy in lubrication and of long life, and are illustrated and described in detail in the publication.

Engineering.—The Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., is distributing a booklet outlining the engineering achievements of the Westinghouse organization in 1929 and describing and illustrating a number of outstanding developments and installations. The publication is numbered 1717-D.

Multiple Retort Stoker.—A catalog illustrating and describing the C-E multiple retort stoker is being distributed by the Combustion Engineering Corporation, New York. This stoker is of comparatively new design and is the result of three years' research and development work on the part of engineers of the company.

Roller Chain Drives.—The Diamond Chain & Manufacturing Co., Indianapolis, has issued a useful data sheet on roller chain drives, which may be hung on the wall for reference purposes. The company maintains Southern branch offices in Greenville, S. C.; Birmingham, Ala., and Houston, Tex.

Anniston, Ala.—Facts about Anniston, described as the "second industrial city of Alabama" and the textile center of the state, are presented in pamphlets and folders being distributed by the United Chambers of Commerce, Anniston. One pamphlet contains statistics and manufacturing data showing the growth of the city in 1929, while a folder shows a birdseye view of a downtown section of the city and details points of interest in the vicinity.

Welded Pipe in Power Plant.—Designed to operate at 250 pounds pressure and 100 degrees superheat, the new power plant of the Bureau of Standards, Washington, D. C., has installed an all-welded piping system, making use of Tube-Turns, new seamless drawn fittings manufactured by Tube-Turns, Inc., Louisville, Ky. This installation is described and illustrated in a booklet issued by the company, the text being prepared by John H. Zink, president of the Heat & Power Corporation, Baltimore, Md., a distributor of the products. Other Southern distributors include the Maintenance Engineering Corporation, Houston, Tex.; the Moorlane Co., Tulsa, Okla., and the H. A. Woodworth Engineering Co., St. Louis, Mo.

For Wood Preservation.

The Curtin-Howe Corporation, New York, engineers in wood preservation, announce the licensing of the J. T. Moss Tie Company, St. Louis, Mo., to use the ZMA process of wood preservation at its plant in Mount Vernon, Ill. This authorization makes a total of 10 commercial wood preserving plants equipped to preserve chemically all kinds of forest products with the ZMA process.

Book Review

Prometheus, U. S. A. A history of fire and heat, and the uses of fire from man's earliest acquaintance with it down through the ages to the present day, and the part that fire has played in the development of civilizations. By Ernest Greenwood, Harper and Brothers, Publishers, New York, 213 pp. \$2.50.

Beginning with the legendary and purely speculative early acquaintance of man with fire, the story traces our advancing use of this source of heat and energy through many ages and many fuels. The first great fuel, of course, was wood, and while it is still used in quantities that are large as compared with other uses for wood, the author shows how trifling this ancient and honorable fuel has become as compared with others such as coal, oil and gas. The chapter on the "Wild Spirit" as gas was first called, is extremely interesting; and long and hard were the struggles of those hardy scientific pioneers who first introduced manufactured gas for city lighting. Petroleum, Greenwood shows, has been used for thousands of years in certain localities in which it oozed from the ground, but it remained for America to make it a world force. Fuel oil in railway locomotives, oil and electricity and the relation of fuel and politics are further phases covered in the volume. It is an interesting book.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Boiler. — Burton Ginning & Mfg. Co., Clarksville, Va.—Want prices and data on used steam boiler, 60 or 70 h. p., good condition.

Canning Outfits. — Hugh Ryan, 41 Arcade Bldg., Columbia, S. C.—Wants prices and data from manufacturers of canning outfits, small community plants, suitable for use on farm.

Distilling Equipment (Alcohol). — West Coast Fruit Co., Clearwater, Fla.—Wants prices and data on equipment for distilling alcohol from grapefruit canning plant refuse, such as peeling, rag and infirm fruit.

Jaw Crusher. — D. C. Elphinstone, Inc. (Contractors' Equipment and Supplies), 120 S. Calvert St., Baltimore, Md.—Wants prices and data on jaw crusher, 70 ton capacity per day, 2½-in. stone.

Motors. — R. P. Johnson (Mchly. Dealer), Wytheville, Va.—Wants prices and data on rebuilt motors, complete with pulleys, rails and starters a. c. type, 220-440 volt, 60 cycle; 25 h. p. variable speed 600 to 1200 r. p. m.; 40 h. p., 900 r. p. m. constant speed; 20 h. p., 900 r. p. m. constant speed.

Peanut Salting Machines. — Arthur Rood, Greensboro, N. C.—Wants prices and data from manufacturers of peanut salting machines.

Soy Bean Oil and Feed Mill Machinery. — C. M. Clay, Mexico, Mo.—Wants prices and data from manufacturers of soy bean oil and feed mill machinery.

Tanks, etc. — Standard Brands, Inc., G. A. Klumb, Wiggins, Miss.—Wants tanks, barrels, etc., for cucumber plant at Gloster, Miss.

Water Motors. — Logan Auto Co., Waynesville, N. C., engaged in installing small branch light plants—Wants prices and data on small water motors.

Consolidated Products Co. (Used Mchly. Dealer), 14-16 Park Row, New York City. — Wants prices and data on following:

- (1) Cone Crushers—Symons, 2, 3 and 4 ft.
- (2) Filters—Sweetland, No. 12, 10 and 9
- (3) Filter Presses—plate and frame—30x30 in. to 36x36 in.
- (4) Jaw Crushers—36x24 or larger
- (5) Kiln (Rotary)—8x125 ft. or larger
- (6) Mixers—Werner & Pfleiderer, size 15 or larger
- (7) Mixer—1 ton, Sturtevant.

Houston Stamp & Stencil Co., Inc., 815 Fannin St., Houston, Tex.—Wants prices and data on following:

- (1) Air Compressor—automatic control, 10 to 20 ft. capacity
- (2) Boiler—5 to 7 h. p. vertical gas-fired, automatic control, 60 lb. pressure
- (3) Drill (Sensitive)—motor drive, bench or floor type
- (4) Floor Grinders and Buffers — 1 h. p. motor drive
- (5) Saw (Circular)—¾ or 1 h. p. precision.

W. M. Smith & Co. (Mchly. Dealer), Birmingham, Ala.—Wants prices and data on following:

- (1) Air Compressor—10x10 in., belt driven
- (2) Cars (Dump) — 10, 12 yd. or 20 yd. standard gauge.

Miscellaneous

Bronze Tablets. — Frank H. Reed, Neosho, Mo., constructing number of wading pools.—Wants prices and data on bronze tablets with inscription; tablets to be imbedded in walks surrounding pools.

Cans, and Glass Jars. — Hugh Ryan, 41 Arcade Bldg., Columbia, S. C.—Wants prices and data from can manufacturers, and makers of glass jars, used for pickles, etc.

Palm Beach Furniture & Mattress Co., Inc., 717 S. Olive St. and Fourth and East Court St., West Palm Beach, Fla.—Wants prices and data on following:

- (1) Cushion Forms
- (2) Upholstering Machine—for special work
- (3) Springs.

S. Grant Alexander (Archt.), 113 E. College St., Asheville, N. C.—Wants prices and data on following for small apartment building:

- (1) Kitchenette Equipment
- (2) Letter Boxes
- (3) Telephones.

Building Material and Equipment

C. M. Guest & Son, Contrs., Anderson, S. C., want prices on following.

Steel Building (Portable)—not less than 2500 sq. ft. used.

Deilmann & Levy, Archts., State Bk. Bldg., Corpus Christi, Tex., want prices on following for \$38,000 department store for J. L. Welch and C. J. Tschledel:

- (1) Cast Stone
- (2) Electric Refrigerators
- (3) Flooring—hardwood, terrazzo, tile
- (4) Roofing—built-up
- (5) Tile—hollow
- (6) Ventilators

Brass and Bronze Work

Denis & Handy, Contrs., 823 Perdido St., New Orleans, La., want prices on following for \$10,000 dwelling:

- (1) Flooring—hardwood, tile
- (2) Roofing (hip)—tile.

Edw. F. Neild, Archt., 1206 City Bk. Bldg., Shreveport, La., wants prices on following for \$55,000 dwelling:

- (1) Cast Stone
- (2) Elevators
- (3) Flooring—hardwood, linoleum, tile
- (4) Incinerator
- (5) Limestone
- (6) Roofing—tile
- (7) Steel Sash
- (8) Tile—hollow.

G. A. Klumb, Standard Brands, Inc., Wiggins, Miss., wants prices on following for cucumber plant at Gloster, Miss.:

- (1) Cement
- (2) Roofing.

H. E. Wagenknecht, Archt., 701 McDonald St., St. Joseph, Mo., wants prices on following for \$55,000 school, Dearborn, Mo.:

- (1) Flooring—hardwood, tile
- (2) Limestone
- (3) Roofing (flat)—built-up
- (4) Tile—gypsum

Vaults. — J. C. Lawrence, Archt., 11 Commercial Bldg., North Kansas City, Mo., wants prices on following for \$16,500 church:

- (1) Flooring—hardwood, tile
- (2) Limestone
- (3) Roofing—asbestos shingle tile

J. P. Renner, 1733 Carolina Ave., Bessemer, Ala., wants catalogs and prices on following:

- (1) Cast Stone
- (2) Electric Refrigerators
- (3) Flooring—hardwood, tile
- (4) Metal Ceilings
- (5) Metal Doors
- (6) Plaster Board

Roofing—asbestos and asphalt shingle, slate tile—hollow

Johnston Tin Foil & Metal Co., J. J. Guerghely, 6000 S. Broadway, St. Louis, Mo., wants prices and data on following for plant addition:

- (1) Floors—tile
- (2) Metal Doors
- (3) Sprinklers and Blowers.

P. G. Silber & Co., Archt., Bedell Bldg., San Antonio, Tex., want prices on following for \$30,000 store and hotel for Sam Schwartz, Eagle Pass, Tex.:

- (1) Cast Stone
- (2) Flooring—terrazzo, composition
- (3) Incinerator.

R. W. Shaw, Archt., Enid, Okla., wants prices on following for \$70,000 school, Guthrie, Okla.:

- (1) Cast Stone
- (2) Flooring—hardwood, terrazzo, composition
- (3) Rolling Partitions
- (4) Roofing (flat)—built-up.

S. Grant Alexander, Archt., 113 College St., Asheville, N. C., wants prices on following in connection with improvements to 4-story Temple Court Bldg. for department store for National Belles Hess Co., Inc.:

- (1) Elevators
- (2) Flooring—hardwood, tile
- (3) Metal Doors
- (4) Plaster Board
- (5) Roofing—built-up
- (6) Tile—hollow
- (7) Ventilators
- (8) Wire Glass
- (9) Brass and Bronze Work.

Thos. G. Hubbard, Pheba, Miss., wants prices on following for \$11,000 dormitory at Clay County Agricultural High School:

- (1) Roofing (hip)—asphalt shingle.
- (2) Cast Stone
- (3) Flooring—tile
- (4) Roofing (hop)—tile
- (5) Steel Sash and Trim
- (6) Brass and Bronze Work.

Bids Asked

Batteries. — Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 22 for 98 batteries, delivery Quantico, Va.

Bridges. — State of Tennessee. Bids for 9 bridges. See Construction News — Roads, Streets, Paving.

Bridge Approach. — State of Louisiana. See Construction News — Roads, Streets, Paving.

Bridges. — State of Oklahoma. Bids for 3 bridges. See Construction News — Roads, Streets, Paving.

Bridges. — State of Arkansas. Bids for 2 bridges. See Construction News — Roads, Streets, Paving.

Bridge. — Elkton, Md. See Construction News — Bridges, Culverts, Viaducts.

Bridges. — State of Virginia. Bids for 5 bridges. See Construction News — Roads, Streets, Paving.

Causeway. — Port Lavaca, Tex. See Construction News — Bridges, Culverts, Viaducts.

Causeway. — Rockport, Tex. See Construction News — Bridges, Culverts, Viaducts.

Clearing Ditches. — Harris County Drainage Dist. No. 2, H. L. Washburn, County Auditor, Court House, Houston, Tex.—Bids Jan. 30 for cleaning out Main E. Outlet Ditch and Main St. Ditch, South Houston; J. M. Howe, Engr., First Natl. Bank Bldg., Houston.

Dikes. — U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, Mo.—Bids Feb. 10 for constructing about 5000 lin. ft. standard pile clump dikes, or alternatively 8000 lin. ft. standard retards, Missouri River, Leavenworth Bend, about 2.7 mi. from Leavenworth, Kans.

Elevator. — Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids Jan. 30 for installing complete elevator plant in U. S. custom house, court house and post office, Memphis, Tenn.

Garage Tools. — Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 20 for garage tools.

Hardware. — Ch. of Engineers, U. S. Army, Washington, D. C.—Bids Feb. 4 for 150 ship augers; 300 wood bits; 60 steel blocks; 1000 stove bolts; 300 hatchet handles; 1000 hatchets, etc.

Hospital Equipment.—Mayor and Board of Aldermen, Aberdeen, Miss.—Bid Feb. 6 for equipment estimated to cost about \$15,000 for municipal hospital, including operating table, gas and ether machine, instruments for major operating room, instrument cabinet for same, floor lamps, X-ray equipment, instruments, etc., for minor operating room, sterilizers, stretchers, beds, chairs, ice box, office equipment, etc., kitchen stove, tables; plans at office of R. C. Maynard, Town Clk., Aberdeen.

Lamp Posts (Orna. Iron).—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids Jan. 29 for orna. iron lamp posts; Lighting Div., Bureau of Mechanical-Electrical Service, Room No. 321, Municipal Bldg., for specifications and proposal form.

Machine Shop Equipment, etc.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 28 for following: Engine lathe, motor driven universal milling machine, motor-driven metal cutting hand saw, pipe benders and straighteners, hand brake.

Marble and Bronze Work.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Jan. 25 for marble and bronze work, Sch. 2522.

Miscellaneous.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Jan. 20 for following, Sch. 2521.

Baggage truck, wire rope, spring steel, copper, nickel alloy, ferromanganese, antimony, railing fittings, drainage crosses, basin plugs, closet connections, etc.

Miscellaneous Handles.—U. S. Engr. Office, Huntington, W. Va.—Bids Jan. 23 for miscellaneous handles.

Miscellaneous.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Jan. 28 for following, Sch. 2520:

Metal beds and springs, steel, pipe, pipe fittings, wire rope, wire, sheet brass, wire nails, fire hydrants, Portland cement, etc.

Motorcycles.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 21 for 20 motorcycles, delivery Philadelphia, Pa.

Oils.—Commanding Officer, Augusta Arsenal, Ga.—Bids Jan. 28 for 500 gals. crude distilled glycerine, 300 gals. mineral lard oil, etc.

Packing Boxes (Steel).—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 21 for steel packing boxes for smokeless powder to naval powder factory, Indian Head, Md., or to Bureau of Supplies and Accounts, J. J. Cheatham, Paymaster Gen. of Navy.

Paints.—Contracting Officer, Army and Navy General Hospital, Hot Springs, National Park, Ark.—Bids Jan. 29 for 8000 lbs. white lead, 100 lbs. putty, paint and varnish brushes, etc.

Paving.—Houston, Tex. See Construction News—Roads, Streets, Paving.

Pipe (Reinforced Concrete).—See Sewer System.

Pipe (Cast Iron).—See Sewer System.

Pipe (Reinforced Concrete).—See Sewer System.

Pipe (Vitrified).—See Sewer System.

Pipe (Sewer).—See Sewer Construction.

Pipe (Steel), etc.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 22 for steel pipe, etc., delivery Quantico, Va.

Radio Supplies.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 22 for radio supplies.

Railroad Oilers, etc.—U. S. Engr. Office, Galveston, Tex.—Bids Jan. 20 for plumbing supplies, including malleable bushings, couplings, elbows, nipples, reducers, etc.

Railroad Ties.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 20 for 250 railroad ties (white oak), delivery Quantico, Va.

Ring Buoys.—U. S. Engr. Office, Huntington, W. Va.—Bids Jan. 24 for ring buoys.

Road.—Lake Charles, La. See Construction News—Roads, Streets, Paving.

Roads.—State of Arkansas. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Colfax, La. See Construction News—Roads, Streets, Paving.

Roads.—State of Tennessee. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas.—Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Oklahoma. See Construction News—Roads, Streets, Paving.

Road.—Oberlin, La. See Construction News—Roads, Streets, Paving.

Road.—State of Louisiana. See Construction News—Roads, Streets, Paving.

Road.—Linden, Tenn. See Construction News—Roads, Streets, Paving.

Sewer System.—See Water Works and Sewers.

Sewer System.—City Comn., Jacksonville, Fla., Fred M. Valz, Chrm.—Bids Jan. 27 for furnishing materials and constructing storm and sanitary sewers; work includes following materials, 148 ft. of 6-in., 3120 ft. of 8-in., 325 ft. of 10-in., sewer pipe; 84 ft. of 12-in., 988 ft. of 10-in., 300 ft. of 8-in., e. i. sewer pipe; 177 ft. of 16-in., 427 ft. of 21-in., R. & S. rein. conc. pipe; 1130 ft. of 24-in., T. & G. rein. conc. pipe; manholes; rings and covers; Construction, includes following material and doing all work in connection with construction of sanitary and storm sewers: 160 ft. of 6-in., 3474 ft. 8-in., sanitary sewers; 300 ft. 8-in., 988 ft. of 10-in., 84 ft. of 12-in., sanitary sewer, c. i.; 177 ft. of 18-in., 427 ft. of 21-in., 1130 ft. of 24-in., storm sewer; information, etc., from office of City Engr., Main & Orange Sts.

Sewer Construction.—Bd. of Public Service, St. Louis, Mo., E. R. Kinsey, Pres.—Bids Feb. 4 for constructing western sanitary sewer, northern sanitary sewer, northern storm drain and draining along Cold Water Creek diversion channel at St. Louis Airport; following approx. quantities: Western Sanitary Sewer—265 ft. of 8-in., 360 ft. of 8-in., 310 ft. of 8-in., 890 ft. of 10-in., 60 ft. of 10-in., 185 ft. of 12-in., 200 ft. of 12-in., 80 ft. of 12-in., sewer pipe 6 to 17 ft. deep, manholes, etc. Northern Sanitary Sewer—1840 ft. of 8-in., 1615 ft. of 10-in., sewer pipe, manholes, etc.; Northern Storm Drain—600 ft. of 6-in. v. c. tile drain; 20 ft. of 12-in., 1030 ft. of 18-in., 500 ft. of 21-in., 500 ft. of

21-in., 995 ft. of 24-in., 550 ft. of 27-in., 680 ft. of 30-in. sewer pipe, 7 to 9 ft. deep; Y junctions on 18-in. to 30-in. pipe; manholes, inlets, etc.; Bank Drain along Sold Water Creek Diversion—115 ft. of 8-in., 480 ft. of 8-in., 555 ft. of 8-in., sewer pipe 12 to 21 ft. deep; manholes, etc.

Sewer System.—Bd. of Awards, Baltimore, Md.—Bids Feb. 4 for sewers and drains, Storm Water Cont. No. 141; work includes 1017 ft. of 6x5 ft., rect. section brick and cone, drain; 322 ft. of 42-in., 246 ft. of 30-in., 268 ft. of 24-in., diam. rein. cone, pipe drain; 1034 ft. of 21-in., 704 ft. of 18-in., 637 ft. of 15-in., diam. vit. pipe sewer and drain; 313 ft. of 10-in., diam vit. pipe sewer; 1500 ft. of 6-in. and 8-in. underdrain; 6275 cu. yds. excavation; Milton J. Ruark, Sewerage Engr.

Sheet Steel.—U. S. Engr. Office, Huntington, W. Va.—Bids Jan. 22 for sheet steel.

Street.—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

Street, etc.—St. Louis, Mo. See Construction News—Roads, Streets, Paving.

Towboat.—Inland Waterways Corp., 1016 Munitions Bldg., Washington, D. C.—Bids March 1 for constructing, less main engines of large steel tunnel type, propeller, diesel driven towboat; plans, etc. on application to Ch. Executive, 1016 Munitions Bldg.

Tube Bending Machine.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 28 for motor driven tube bending machine.

Varnish Clarifier and Filter Machine.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 28 for motor driven varnish clarifier and filter machine.

Water Piping.—Supy. Archt., Treasury Dept., Washington, D. C.—Bids Jan. 30 for new brass water piping in U. S. P. O. Rome, Ga.

Water Works and Sewers.—City of Edna, Tex., E. D. White, Mayor—Bids Jan. 22 for furnishing materials and constructing water works and sewer system; W. M. Fooesee, Consult. Engr., Paris.

Wire Rope.—U. S. Engr. Office, Huntington, W. Va.—Bids Jan. 23 for wire rope.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

American Rolling Mill Enlarges Executive Staff.

Directors of the American Rolling Mill Co., Middletown, Ohio, recently voted to enlarge the executive staff of the corporation by creating the offices of chairman of the board and vice-chairman, electing George M. Verity, president of the company, to the former position and Joseph H. Frantz, first vice-president, to the latter. Charles R. Hook, vice-president and general manager, was elected president and will retain the duties of general manager, while Calvin Verity, treasurer and assistant general manager, was elected vice-president and assistant general manager. S. R. Rectanus, assistant to Calvin Verity, was made vice-president in charge of operations, and G. W. Davis, assistant treasurer, was elected treasurer. E. N. Millan, chief of construction, was made chief engineer of the company. George M. Verity, who was the chief organizer of the company 30 years ago, will remain active in its management, as will Mr. Frantz.

Offers \$150,000,000 Debentures.

The American Telephone and Telegraph Company, New York, is offering an issue of \$150,000,000 thirty-five year 5 per cent gold debentures, dated February 1, 1930, to provide funds required by the Bell System for additions and betterments and for other capital expenditures. The following New York bankers are handling the issue: J. P. Morgan & Co., Kuhn, Loeb & Co., Kidder, Peabody & Co., First National Bank, The National City Company, Bankers Company of New York, Guaranty Company of New York, Harris, Forbes & Co. and Lee, Higginson & Co.

1930 Calendars.

Mention was made recently of the receipt by the MANUFACTURERS RECORD of 1930 calendars from many different firms and individuals. Since that notice appeared, additional calendars have been received from the following: Thornton Fire Brick Co., Clarksburg, W. Va.; The Baltimore and Ohio Railroad Co.; J. B. Ford Co., Wyandotte, Mich.; R. D. Cole Manufacturing Co., Newnan, Ga.; State Department of Agriculture, Tallahassee, Fla.; Paxson-Taggart, Inc., Philadelphia; Meyer & Thalheimer, Baltimore; Fecheimer, Frank & Spedden, Inc., Detroit, Mich., and the Cleveland Tractor Company, Cleveland, Ohio.

Engineer of Lumber Association.

Richmond H. Skinner, Boston, Mass., has joined the staff of the National Lumber Manufacturers Association, Washington, D. C., as structural engineer, succeeding Nelson S. Perkins, who resigned to accept a position with the National Committee on Wood Utilization.

Orders 10 E-M Synchronous Motors.

An order for 10 200-horsepower synchronous motors for driving grain legs in the grain elevators of the Galveston Wharf Company, Galveston, Tex., has been placed by the Webster Manufacturing Company, Chicago, contractor for elevating and conveying machinery, with the Electric Machinery Manufacturing Company, Minneapolis, Minn. Two 20 kw. induction motor generator sets for excitation, and one 13-panel switchboard for automatic control are included in the equipment. Each motor will be directly connected through double reduction gears to the grain leg and will be individually designed to meet special requirements. This application for synchronous motors for driving elevator grain legs is said to be comparatively new.

Output of Utilities Company.

The electric output of the Commonwealth & Southern Corporation properties for the year ended December 31, 1929, exceeded 6,376,000,000 kilowatt hours as compared with 5,781,000,000 kilowatt hours for 1928. The gas output in 1929 exceeded 9,668,000,000 cubic feet, an increase of 17 per cent over 1928. Main office of the company, which operates largely in the South through subsidiaries, is in New York city.

Savings Bank Report.

According to the annual report of the Hopkins Place Savings Bank, Baltimore, this institution made satisfactory progress in 1929, opening 2609 accounts and closing 2458, and ending the year with funds on hand of \$20,949,184, as compared with funds on hand at the close of 1928 of \$20,617,387. Robert M. Rother is president of the bank and John W. Reinhart, treasurer.

Industry Consumes 500,000,000 Pounds of Explosives Annually

"The increasing amount of explosives being consumed in industry and public work is an outstanding feature of the American industrial life today," states the Institute of Makers of Explosives, New York.

This organization, through its Volume 1, Number 1 of Explosives Progress, reports that more than 500,000,000 pounds of explosives are now being used annually in mining, railroad building, construction work and on the farm. Special attention is called to the fact that about 20,000,000 pounds of explosives are used each year in agricultural work in the blasting of stumps, the breaking of boulders and the planting of trees. New methods have been found to blast ditches with dynamite economically, so that today a few hundred pounds of explosives do in a few minutes the digging of ditches which formerly took a long time and hard labor. A recent issue of the MANUFACTURERS RECORD discussed the new blasting methods in detail.

One of the recent developments in the use of explosives of interest to Southern industry has been their application in locating salt and sulphur domes. Dynamite charges are exploded on the surface and the shock, penetrating the layers of

Big Pittsburgh Companies Merge.

The Riter-Conley Company, Pittsburgh, Pa., manufacturers of steel storage tanks, blast furnaces, gas holders, steel river barges and other steel plate products, has merged with the McClintic-Marshall Company, Pittsburgh, producers of structural steel for buildings, bridges and other construction. The former will be operated as the Riter-Conley Works of the McClintic-Marshall Company and its business will be under the same management as that company. Offices will be maintained in all principal cities.

To Manufacture Gas Producers.

The Gas-O-Flame Stove Works, Alfred S. Perry, proprietor, Port Deposit, Md., is establishing a plant for manufacture of gas producers ranging in size from 1500 to 12,000 cubic feet capacity per hour. Gas is made as used, it is said, the apparatus being adapted for supplying gas for power, and it is claimed gasoline engines will function on its product, which may also be used for cooking and in mechanical and industrial operations where a controlled heat is desired or essential.

Acquires Wire and Cable Plant.

The General Cable Corporation, New York, announces purchase of the Peerless Insulated Wire and Cable Company of Pennington, N. J., manufacturers of the Peerless brand of weatherproof wire. The Pennington plant will be operated as part of the Standard Underground Cable Company Division of the General Cable Corporation under direction of its former management, which will have at its command the research facilities and production experience of General Cable.

earth, registers on seismographs, indicating the presence of domes, and experiments are now being made to determine whether this method can be applied in locating other minerals.

In recent years the explosive industry has made great strides in improvements in manufacture which give greater efficiency and increased safety.

Iron Ore Increased in Production and Value Last Year

Iron ore mined in the United States in 1929 is estimated by the Bureau of Mines at 73,283,000 tons, an increase of 18 per cent as compared with 1928. Ore shipped reached 75,589,000 tons, valued at \$197,000,000, an increase of 19 per cent in quantity and 26 per cent in value over 1928. About 86 per cent of the iron ore shipped came from the Lake Superior district. It showed an increase of 20 per cent in quantity as compared with 1928.

The Southeastern states, which constitute the second largest iron ore producing area, including the Birmingham and Chattanooga districts, mined approximately 6,975,000 tons of iron ore, valued at \$13,790,000. Increase in production over 1928 was 2 per cent, while shipments increased 8 per cent in quantity and 10 per cent in value.

Glamorgan Pipe and Foundry Manager.

J. D. Capron, for many years publicity manager of the United States Pipe and Foundry Company, Burlington, N. J., has been appointed general manager of the Glamorgan Pipe and Foundry Company, Lynchburg, Va., being succeeded as publicity manager by S. E. Linderman.

Change in Management Announced.

The Orange Car & Steel Company, Orange, Tex., has appointed as managers Charles H. Steel and F. L. Corey, who have served the company as construction engineers. They succeed J. I. Byrne, who resigned to devote more time to the Byrne overhead airplane hangar door which he designed.

Westinghouse Lighting Specialist.

Appointment of R. S. O'Neill as exterior lighting specialist for the Southwestern district, with headquarters in Tulsa, Okla., has been announced by the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa.

Manufacturers Agency.

The Carlyle Company, First National Bank Building, San Diego, Cal., has opened a manufacturers agency and desires to hear from manufacturers wishing representation on the Pacific Coast or in the West.

Traveling Freight Agent.

The Virginian Railway Company, S. M. Adsit, traffic manager, Norfolk, announces the appointment of J. S. Branch as traveling freight agent.

Producing Black Texas Marble

Marfa, Tex.—Rapid expansion of operations is proposed by the Marble Mountain Co., Inc., Marfa, Texas, which is developing a 480-acre tract near here. Initially the company is quarrying Nubian Shell, a black marble containing a profuse distribution of white shell, and a black marble with an occasional white fingernail showing. The present plant, which has a capacity of a carload of marble daily, is equipped with one gang saw, rubbing bed, polishing machine, carbondum saw, and lathe. In addition to block marble, table tops and novelty marbles can be produced by the plant, which was specially equipped for this latter purpose.

New Bank Planned for Tampa

Tampa, Fla.—Application has been made to the comptroller of the currency at Washington for a charter for the Florida National Bank of Tampa, with a capital stock of \$500,000 and surplus of \$125,000. Action on the application, which was filed in the name of J. G. Bright, Jacksonville, secretary-treasurer and comptroller of Almour Securities, Inc., a \$2,000,000 Florida corporation of which Alfred I. du Pont is president, is expected soon.

UTILITIES COMPANIES PLAN MERGER

Commonwealth and Southern Corporation Would Unify Operations

The boards of directors of the Allied Power & Light Company, Commonwealth Power Corporation, Penn-OHIO Edison Company, Southeastern Power & Light Company and the Commonwealth & Southern Corporation have approved a plan of merger which will result in the acquisition by the Commonwealth & Southern Corporation of all the assets of the other four companies, the purchasing company to issue preferred stock, \$6 series, common stock, option warrants and scrip in exchange for the outstanding preferred stock, common stock, option warrants and scrip of the other companies. It is cited that the great advantage of uniting all these corporations into the Commonwealth & Southern Corporation is that it will greatly simplify the corporate structure of the Commonwealth & Southern Corporation by eliminating intermediate holding companies, and that it will give the Commonwealth & Southern system a unified supervision, engineering and construction organization.

The plan of consolidation will not affect the authorized capitalization of the Commonwealth & Southern Corporation, it is said, and its stockholders and holders of option warrants will retain their present certificates. Upon completion of the plan, the capitalization of the corporation will consist of unsecured funded indebtedness assumed, \$55,489,500; preferred stock, \$6 series, 1,355,937 1/6 shares; common stock, 33,973,561 shares, and warrants evidencing the right to subscribe to an equal number of shares of common stock at \$30 per share, 17,607,437 shares. The foregoing does not include \$392,544,902.95 of subsidiaries funded debt and \$195,097,038.44 of subsidiaries preferred stock outstanding, \$11,326,100 of which will be assumed by the Commonwealth & Southern Corporation.

As two of the corporations involved were organized in Maine and three in Delaware, it is planned first to have a technical legal merger of the three Delaware corporations, namely, the Commonwealth & Southern Corporation, Allied Power & Light Corporation and the Penn-OHIO Edison Company. There will also be a separate technical legal merger in Maine of the Commonwealth Power Corporation and the Southeastern Power & Light Company, to be known as the Commonwealth Southeastern Corporation. Following other steps relating to the capital structure of the Maine and Delaware consolidations and the transfer of the assets of the former to the Commonwealth & Southern Corporation, the

Maine corporation will dissolve. Stockholders meetings of the various companies have been called to approve the plan.

The Commonwealth & Southern Corporation, which maintains its general offices in New York, operates largely in the South through subsidiaries, prominent among which are the Alabama Power Company, Birmingham, and the Georgia Power Company, Atlanta, both of which are controlled by the Southeastern Power & Light Company. B. C. Cobb is chairman of the board of the Commonwealth & Southern Corporation, and Thomas W. Martin, president, the latter also being president of the Alabama Power Company.

Merger of Steel and Cement Properties

Stockholders of the Atlas Portland Cement Company, Northampton, Pa., and New York, have approved an offer of the United States Steel Corporation to purchase the entire assets of the Atlas company for 180,000 shares of the common stock of the steel company of the same nature as those presently outstanding. This is substantially equivalent to one share of the common stock of the Steel corporation for each five shares of common stock of the Atlas company now outstanding. As the preferred stock of the Atlas company has been retired, only holders of the common stock will share in the distribution. Southern properties of the Atlas Portland Cement Company include plants at Leeds, Ala.; Hannibal, Mo., and Waco, Tex.

Fernandina Glider Club Organized

Since the publication on January 2 in the MANUFACTURERS RECORD of the article on "Gliding Possibilities in the South," by D. F. Walker, manager of the National Glider Association, Inc., Detroit, Mich., Mr. Walker calls attention to the following:

"The Fernandina Glider Club has been organized at Fernandina, Fla., with the assistance of W. F. Barnwell and E. L. Wolff, secretary of the Chamber of Commerce of that city. This club has also organized the Florida Glider Association, affiliated with the National Glider Association, for the promotion of gliding in the State of Florida and in southern Georgia."

\$675,000 Bond Offering

Charlottesville, Va.—The Finance Committee of the city of Charlottesville, E. A. Joachim, chairman, receives bids until January 29 for the purchase of \$675,000 5 per cent general improvement bonds, dated January 1, 1930 and payable from one to forty years after date.

Southern Railway Improvements

Washington, D. C.—Continuing its program of improvement through 1929, the Southern Railway System completed 20 miles of revision and second track construction on a 65-mile line on which work is in progress between Williamstown, Ky., and Danville, and including reduction of gradients and curvatures. Mechanical coal handling plants for fueling locomotives were put in service at Asheville, Charlotte and the Inman yards in Atlanta, while smaller plants were built at Keysville, Va.; East Durham, N. C., and Paint Rock, Ala. Direct coaling machines without overhead storage were erected at Strasburg, Va.; Melrose, N. C.; Ridgecrest, N. C., and Toccoa, Ga. Bridge renewals included the completion of a heavy duty double-track bridge over the Tombigbee River between Birmingham and Meridian and two bridges over the Okmulgee River between Macon and Jessup, Ga. New bridge projects undertaken during the year included the renewal of 20 bridges with steel and concrete structures, the elimination of 16 timber trestles by filling over concrete culverts and the construction of 15 ballast deck creosoted timber trestles to take the place of untreated timber structures. The elimination of the 832-foot McCombs viaduct on the Birmingham-Atlanta line was one of the biggest bridge renewal projects undertaken. This work, which is still in progress, consists of filling over a concrete culvert. Freight stations were erected at Burlington, Morganton and Shelby, N. C., and the capacity of the Cherry street yard at Winston-Salem enlarged. A new automobile unloading station was erected at Chattanooga. Contracts were awarded in October for 3500 automobile and furniture box cars and 1500 hopper bottom coal cars, and in December for 44,200 tons of steel rail to lay 270 miles of track, the rail to be rolled at Ensley, Ala., for delivery during the first half of 1930. The company also ordered 23 all-steel mail express cars for delivery this year.

Finishing Plant Completed

Regarding recent reports that the United Merchants and Manufacturers, Inc., Boston, Mass., would build a finishing plant at Clearwater, S. C., and install 21,000 spindles in the Aiken, Langley and Clearwater mills, Charles T. Main, Inc., Boston, engineer, advises that these reports evidently refer to work already completed.

An aeronautical meeting, sponsored by the Society of Automotive Engineers, New York, will be held at the Hotel Jefferson, St. Louis, from February 18 to February 20.



The Five-Day Week in Industry

At least 270 manufacturing establishments, mostly small plants, in the United States, employing in the aggregate approximately 218,000 persons, are operating on a regular five-day week schedule, according to a report just published by the National Industrial Conference Board, New York. This number, however, includes the Ford plants which accounts for about 80 per cent, but excludes the large number of workers in the building trades on a five-day schedule. While the five-day week has been adopted perhaps more widely than is generally realized (over 400,000 persons being on the five-day basis), still it applies to only a relatively small portion of industrial workers, those in the manufacturing industries found to be working under that schedule amounting to only 2.6 per cent of the industrial workers of the country.

Companies operating under the five-day week arrangement were found to represent a number of industries and types of processing, but belonged generally to the non-continuous, as contrasted with the continuous process type. Where the process has no fixed time element, the five-day schedule appears to be susceptible of wide application, but in the continuous process industries the five-day arrangement presents the alternative of either the loss of one or two days' production each week or of employing sufficient additional workers to provide a revolving shift, the Board points out.

The five-day week, it is emphasized, as now in operation, is not always a 40 hour week, but frequently constitutes merely a re-arrangement of hours with no or only a partial loss of the number of hours worked under the six-day schedule. It is thus, at the present stage of its development, in part a question of re-arrangement of working hours, the time lost on Saturday being re-apportioned over the other five working days of the week, lengthening each day somewhat, and in part a question of reduction of the total work period. But "since this tendency is coupled generally, or in principle, with the assumption that wages are to be maintained or increased (in spite of the shorter work period) the five-day week is, at bottom, also a part of the general movement for higher wages," the Board finds.

The evidence uncovered in the 270 reporting manufacturing establishments does not allow the conclusion that any or all industrial plants could advantageously adopt the five-day plan. 31.8 per cent had a smaller output, 19.2 per cent reported a gain and 49 per cent no change. The facts collected by the Board do, however, remove the five-day week from the status of a radical and

impractical administrative experiment and places it among the plans which have demonstrated both practicability and usefulness under certain given circumstances, allowing employers to approach the problem with some factual evidence as a guide as to the practicability in their own specific instance.

Phenomenal Growth of Cheese Industry in South

Cheese production in the United States has always been more highly localized than has the manufacture of any other major dairy product, but in recent years there has been a tendency toward an extension of the industry into states which previously have been of little importance in the manufacture of cheese, states a recent report by B. H. Bennett of the Bureau of Agricultural Economics, United States Department of Agriculture. In 1920 Wisconsin made more than 70 per cent of all cheese produced in the United States, but by 1928 that state's production was only about 62 per cent of the total.

Explaining that some of the decrease in Wisconsin production has been made up already by increases in Illinois, Indiana and Missouri, the report emphasizes that:

"Apparently the cheese industry is looking with considerable favor toward the South as a section that has production possibilities. This is indicated by the establishment of a comparatively large number of cheese factories in the Southern states in the last two years, especially in 1928. Indications are that there will be a considerable increase in the number of factories in the South by the close of the present year; this has been accompanied by a corresponding increase in cheese production in states which reported little or no manufacture prior to 1927 or 1928."

"Cheese production of the South made a rather phenomenal growth in 1928 as compared with former years, but the total output of all the Southern and southern border states combined is still only a very small fraction of the total production of the United States. In 1928 the states of Virginia, North Carolina, Georgia, Alabama, Tennessee, Kentucky, Mississippi, Texas and Arkansas produced 6,441,000 pounds of cheese, and although this was a large increase in percentage as compared with 1927, total production was only about 2 per cent of all cheese produced in the entire country that year."

"Probably the most difficult problem the cheese industry of the South will encounter is getting milk enough for volume production the year round. The cattle tick has practically been eradicated, and operation of cheese factories will furnish one of the needed manufacturing outlets, but the continued production of cotton, tobacco and sugar cane will undoubtedly exert a check to a very rapid expansion of the industry in the majority of the Southern states. Persons connected with cheese manufacturing, however, are watching with considerable interest the developments now taking place in that region."

East Tennessee Light and Power

Bristol, Va.-Tenn.—Incorporating in March, 1927, the Tennessee Central Service Company changed its name last October to the East Tennessee Light & Power Company and acquired the following properties, as previously announced: The Bristol Gas & Electric Co., Bluff City Electric Light & Power Co., Butler Light & Power Co., Roans Creek Light & Power Co., Elk Park Light & Power Co., Erwin Light & Power Co. and the Newland Light & Power Co. The East Tennessee Light & Power Company has a subsidiary, the Tennessee Eastern Electric Company, which in turn owns the Johnson City Traction Co. and the Tennessee Eastern Power Co. This group of companies supplies electric service to an area including and centering about Bristol, Tenn., in addition to gas service to Bristol, Va.-Tenn., and traction service in Johnson City. The East Tennessee Light & Power Company is controlled by the Cities Service Company, New York.

Lower Freight Rates Depend on Volume of Freight Handled

H. M. Lull of Houston, executive vice-president of the Southern Pacific Lines in Texas and Oklahoma, in a recent interview pointing out the growth of Texas along business and industrial lines, and comparing the 10,944,000 tons of freight handled by the railroads of Texas in 1891 with the probable movement for 1929 of 100,000,000 tons, made this significant statement:

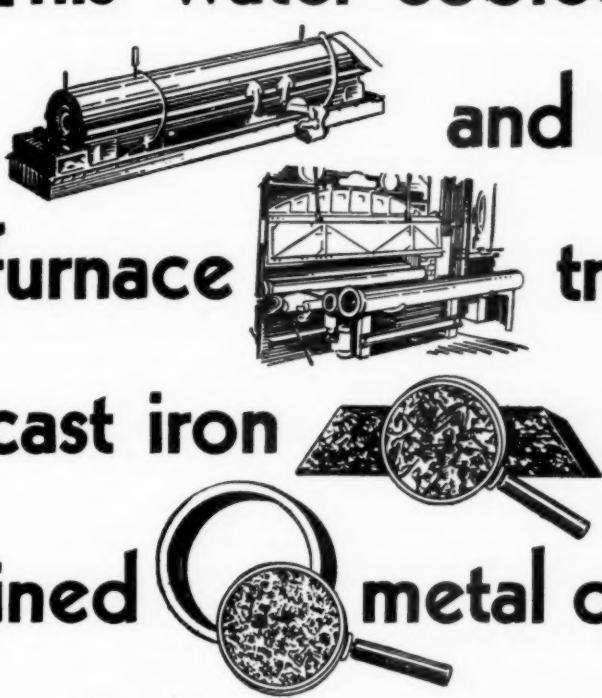
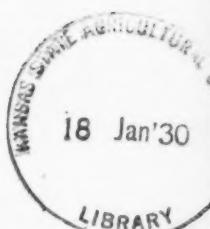
"Railroad men do not object to freight rates going down, provided they get the revenue on volume of business. More business means more reduction in rates, and the railroads' idea, like that of every other business, is to increase business. You must concentrate the movement of freight on railroads to get cheaper freight rates."

Progress of Roanoke

An attractive rotogravure section of the Roanoke Times and the Roanoke World-News, published at Roanoke, Va., was recently issued. With illustrations and text, the publication tells of the material progress and development of Roanoke, showing changes which have transformed the appearance of the city. An article on its industrial and commercial growth briefly reviews the history of Roanoke's progress along these lines and depicts the diversity of its industries.

The Florida Power Corporation, St. Petersburg, formerly supplying wholesale power to Dunnellen, Fla., has purchased the Dunnellen municipal electric plant.

**This water-cooled metal mold
and this annealing
furnace transform crude
cast iron into the fine
grained metal of deLavaud pipe
which is strong and flexible**

Examine a section of deLavaud cast iron pipe and note the fine and even grain of the metal. Laboratory tests have shown that deLavaud pipe combines flexibility with at least 25% greater strength.

The reason for the fine granular structure of deLavaud pipe metal is due to its unique process of manufacture. deLavaud pipe is cast in a rapidly revolving cylindrical mold. This mold is cooled by a specially constructed water jacket. When the molten iron comes in contact with the chilled surface of the mold, the abrupt change of temperature brings about the uniformly fine division of the iron particles.

Immediately upon leaving the machines, every length of deLavaud pipe is placed in a large annealing oven. Here *accurately controlled* heat further improves the metal, eliminating all possibility of casting strains, and bringing about the flexibility and strength that only deLavaud pipe can offer.

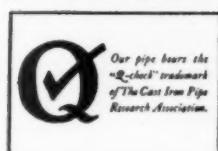
Let us send you the deLavaud handbook which contains complete information about deLavaud pipe and fittings.

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January 16, 1930

FINANCIAL NEWS

Bond Issues Proposed

Ala., Birmingham—City votes Feb. 11 on \$4,000,000 bonds: \$3,000,000, widening, straightening and deepening channels of Village and Valley Creeks; \$1,000,000, purchase land for airport; A. J. Hawkins, Engr. 1-2

Ala., Centerville—Water—Town, S. C. Meigs, Mayor, receives bids Jan. 29 for \$21,000, 6% bonds.

Fla., Belle Glade—Water—City vote latter part of Jan. on \$30,000 bonds. 12-19

Fla., Milton—Road—Santa Rosa County voted \$100,000 bonds.

Ga., Brunswick—City, H. C. Garvin, Mgr., receives bids Jan. 27 for \$45,000, 7% certificates of indebtedness or consols.

Ky., Ashland—City Council authorized sale of \$200,000 bonds to enlarge pumping and filtering capacity of municipally owned water works.

La., Bastrop—Road, Bridge—Morehouse Parish Police Jury called election for Mar. 18 on \$165,000 bonds in Road and Bridge Dist. No. 4.

La., Ponchatoula—Bd. of Commsr. Gravity Drainage Dist. No. 2, J. H. Inman, Sec., Tangipahoa Parish, reported, rejected bids for \$240,000 5% bonds. 12-12

Maryland—In debt edness—State, John M. Dennis, Treas., Annapolis, receives bids Feb. 12 for \$787,000, 4 1/2%, \$1,000 denom. "General Construction Loan of 1929," certificat es; Albert C. Ritchie, Governor.

Md., Hagerstown—Washington County Commsr. receive bids Jan. 21 for \$471,000, 4 1/2% school bonds.

Miss., Cleveland—School—City voted \$60,000 bonds.

Miss., Hattiesburg—City, W. B. F. Tatum, Mayor, rejected bids for \$1,000,000, 4% bonds; \$750,000, water; \$250,000, sewer. 12-19

Miss., Kosciusko—Attala County Bd. of Supvrs. called election for Jan. 30 on \$75,000 bonds; \$15,000 repair courthouse; \$60,000 jail.

Miss., Senatobia—Tate County Bd. of Supvrs. plans selling \$20,000 Arkabutla Creek Drainage Dist. bonds, for new channel into Coldwater River at Savage.

Miss., West Point—Clay County Bd. of Supvrs., R. L. Stedman, Pres., will sell Feb. 3, \$40,000 road and bridge refunding bonds.

Mo., Independence—Road—Jackson County, Harry A. Sturgis, County Treas., receives bids Jan. 22 for \$2,000,000 of \$6,500,000 bonds previously voted.

N. C., Lexington—Davidson County Commsr., Grant Raker, Clk., receive bids Jan. 18 for \$95,000, not to exceed 6% indebtedness notes.

Okl., Oklahoma City—Paving—City, E. M. Fry, Mgr., plans issuing bonds.

Okl., Tulsa—City, Dan W. Patton, Mayor, votes Feb. 4 on \$6,230,000 bonds: \$1,150,000, street improvement; \$700,000, grade separation and approaches; \$725,000, bridge; \$300,000 sanitary sewer; \$1,000,000, storm sewers; \$500,000, parks; \$65,000, municipal airport; \$40,000, traffic signals; \$450,000, fire stations, equipment and fire signal system; \$150,000, municipal hospital; \$60,000, municipal hospital in negro sections; \$50,000, convention hall; \$170,000, public buildings; \$75,000, public library; \$50,000, detention house; \$150,000, overpass; K. R. Teis, City Engr. 1-2

Tenn., Benton—Polk County Court rejected bids for \$100,000, 5% bonds to pay outstanding warrants.

Tenn., Bruceton—Water—City, A. G. Lowe, Mayor, voted \$45,000 bonds; will sell bonds Jan. 23.

Tenn., Chattanooga—Hamilton County authorized \$1,656,500 bond issue: \$961,000, school indebtedness, construction, equipment, etc.; \$500,000, Missionary Ridge tunnel, Avondale; \$100,000, bridge across Chickamauga Creek; \$95,000, school in Alton Park; Will Cummings, County Judge. 12-5

Tenn., Loudon—Loudon County votes Feb. 25 on \$100,000 school bonds.

Tenn., Ripley—Road—Lauderdale County Hard Roads Com., W. C. Potter, Chmn., receives bids Jan. 25 for \$250,000, 6% bonds.

Tenn., Somerville—School—Fayette County Court considering \$10,000 bond election.

Tenn., Springfield—Robertson County, Byron Johnson, County Judge, receives bids Jan. 18 for \$25,000, road bonds; \$30,000 school warrants.

Tex., Cleveland—Cleveland Independent School Dist. voted \$60,000 bonds. 1-2

Tex., Crockett—Road—Houston County probably vote first week in Mar. on \$1,450,000 bonds.

Tex., Crystal City—School—City votes Jan. 24 on \$70,000 bonds.

Tex., Dallas—Dallas County Commsr., F. H. Alexander, Judge, probably sell, in Mar. \$3,000,000 of \$6,950,000 road and bridge bonds, previously voted.

Tex., El Paso—City will sell, before Apr. 1, \$1,362,000 municipal bonds.

Tex., Georgetown—Sewer—City, M. F. Smith, Mayor, to sell \$60,000 bonds. 1-9

Tex., Houston—Common School Dist. No. 1, between Houston and Tomball, votes Jan. 30 on \$30,000 bonds.

Tex., Mathis—Mathis Independent School Dist. votes Jan. 25 on \$45,000 bonds. 1-9

Tex., Sweetwater—School—Bd. of Education, C. R. Simmons, Pres., calls election for Jan. 26 on \$180,000 bonds. 1-9

Va., Charlottesville—City, Finance Committee, E. A. Joachim, Chmn., receives bids Jan. 29 for \$675,000, 5%, \$1,000 denom. general improvement bonds. 10-17

Va., Clintwood—Dickenson County considering \$125,000 bond election early in May for schools.

Va., Richmond—Sewer—City Council considering \$400,000 bond issue; J. Fulmer Bright, Mayor.

Bond Issues Sold

Kentucky—State Highway Comn., Frankfort, sold \$11,667,000, 5% bridge bonds, jointly, to Stifel, Nicolaus & Co., Inc., St. Louis, Mo., C. W. McNear & Co., Chicago, Ill., and Stranahan, Harris & Oatis, Inc., Toledo; prices paid ranging from 90.01 to 90.31; to build 12 and purchase 5 toll bridges. 12-26

La., Bastrop—Morehouse Parish School Bd. sold \$250,000 5% bonds to Hibernia Securities Co., New Orleans, \$250,000 premium. 12-12

Miss., Heidelberg—Jasper County Bd. of Supvrs., Paulding, sold \$50,000, 5% Heidelberg Consolidated School Dist. bonds to Hibernia Bank & Trust Co., New Orleans.

Miss., Jackson—City Comn. sold \$371,000, 5% municipal improvement bonds to syndicate composed of Jackson State National Bank, First National Bank, Jackson; Caldwell & Co., Nashville; A. K. Tlgett & Co., Memphis, and John Nuveen & Co., Chicago, at par.

N. C., Elizabeth City—Bridge—Pasquotank County Commsr., J. C. Spence, Clk., sold \$13,000, 6%, \$1,000 denom. bonds to Hanchett Bond Co., Chicago, at \$13,057 and accrued interest. 12-26

N. C., Raeford—Highway—Hoke County Commsr., D. K. Blue, Clk., sold \$25,000, 5 1/2% bonds to N. S. Hill & Co., Cincinnati, at \$3777 premium. 12-19

Okl., Oklahoma City—City Council, E. M. Fry, Mgr., purchased \$157,000 water bonds at \$6,000 premium.

Okl., Oklahoma City—Bd. of Education, J. G. Stearley, Clk., sold \$2,150,000 bonds to Continental National Co., Chicago, and American-First Trust Co., Oklahoma City, at par, accrued interest and \$200 premium, \$1,302,000, 5%; \$848,000, 4 1/2%. 1-2

Tennessee—State Funding Bd., Nashville, Tenn., sold \$29,050,000, 4 1/2% short term notes to group including Caldwell & Co., American National Co., Fourth & First National Co. and Commerce Union Co., all Nashville; Hamilton Securities Corp. and First Security Co., both Chattanooga; Union & Planters Bank & Trust Co., Memphis; withdrew \$2,000,000 notes. Lately noted bids on \$31,050,000 bonds.

Tenn., Cleveland—In debt edness—Bradley County Court sold \$100,000, 5% bonds to J. C. Bradford Co., Nashville, at par and accrued interest. 12-19

Tenn., Erwin—In debt edness—City, W. A. Roberts, Mayor, sold \$25,000, 6%, \$1,000 denom. bonds to Little, Wooten & Co., Jackson, Tenn., at \$25,275 and accrued interest. 1-9

Tenn., Huntsville—Scott County Court sold \$250,000, 5 1/2%, funding bonds to Saunders & Thomas, Memphis, at par.

Tenn., Lawrenceburg—School Indebtedness—Lawrence County Quarterly Court sold \$100,000 bonds to Little, Wooten & Co., Jackson, Tenn.

Tex., Bryan—Road—Brazos County Commsr. Court, A. D. McSwain, County Judge,

sold \$250,000, 5% Series C bonds to Hall & Hall, Temple, \$225 premium. 1-2

Va., Alexandria—City, Wallace Lawrence, Mgr., sold \$750,000, 4 1/2% bonds to L. E. Smoot, Washington, D. C., at \$735,000, for annexation, public improvement and funding purposes. 12-19

New Financial Corporations

Ala., Gadsden—American National Bank of Gadsden, capital \$200,000, chartered; J. B. Wadsworth, Pres.; D. C. Wadsworth, Cashier; conversion of Etowah Trust & Savings.

Ala., Mobile—American National Bank & Trust Co., capital \$500,000, chartered; Frank F. Folmar, Pres.; A. E. Vautrot, Cashier; conversion of American Trust Co.

Fla., Avon Park—Barnett National Bank of Avon Park, organizing; J. N. Greening, Pres.; W. T. Coates, V-P. and Cashier.

Fla., Jacksonville—Barnett National Securities Corp., capital \$500,000, organized; W. R. McQuaid, Pres. of Barnett National Bank, Pres.; E. G. Haskell, Sec.

Fla., Sebring—Highlands County Bank, Highlands Bank & Trust Co. Bldg., capital \$25,000, opened; Irving Gates, Pres., Tallahassee; E. W. Harshman, V. P., Sebring.

La., Baton Rouge—Citizens Bank & Trust Co., temporary quarters 1028 Main St., capital \$50,000, opened; Charles M. Downs, Pres., John D. Temple, Cashier.

La., New Orleans—Continental Bank & Trust Co., Carondelet St., capital and surplus over \$1,000,000, formed; James J. A. Fortier, Pres.; Continental Securities Co. and Guaranty Bond and Finance Co. will be affiliated institutions at same location.

Miss., Waynesboro—First National Bank of Waynesboro, capital \$25,000, chartered; H. B. Graves, Pres.; G. G. Woodward, Cashier; conversion of Merchants & Planters Bank of Waynesboro.

Mo., Kansas City—Globe Mortgage Co., capital \$300,000, chartered; J. R. Allen, Frank Hamilton, J. N. Greene.

Mo., Kansas City—Plaza Bank of Commerce, Country Club Plaza, Central St. and Alameda road, capital \$200,000, chartered; Walter S. McLucas, 1025 W. 57th St.

Mo., St. Louis—Industrial Bankers Corp., capital \$100,000, chartered; David Berenstein, 6643 Clemens St.

Mo., St. Louis—Bramman-Schmidt-Busch, Inc., capital \$100,000, chartered; Carl T. Bramman, Albert F. L. Schmidt, John B. Busch; stocks and bonds.

Okl., Hugo—Security State Bank, capital \$25,000, chartered; W. E. Schooler, O. T. Eddie man.

Okl., Keyes—Momer and John Johnson, of First State Bank, Boise City, plan organizing state bank at Keyes, with \$15,000 capital.

Okl., Oklahoma City—Commonwealth Guaranty & Investment Co., Inc., capital \$100,000, chartered; C. M. Dunning, 420½ N. Hudson St.

Okl., Tulsa—Tankersley Investment Co., capital \$250,000, chartered; Dan Tankersley, Exchange Natl. Bank Bldg., Tulsa.

Okl., Tulsa—Security Investment & Development Co., chartered; W. P. Falkenberg, L. B. Myers, N. B. Day.

Tenn., Columbia—J. L. Hutton, Liquidating Agent of Columbia Bank & Trust Co., plans organizing Middle Tennessee Bank; Alf Brazier, Chmn. Organization Committee.

Tex., Dallas—Trinity Exchange Finance Corp., capital \$25,000, chartered; A. Morgan Duke, Elmo C. Tenison, B. A. Donnally.

Va., Cape Charles—Kellog & Dickinson Finance Co., Inc., capital \$50,000, chartered; E. M. Kellogg, Pres.

American National Bank, Paul N. Davis, Pres., Nashville, Tenn., acquired control of Farmers National Bank of Shelbyville, Clarence Snell, Pres., Shelbyville, Tenn.; Ben Kintree to be Pres.; R. S. McGill, continue as Cashier.

Bank of Marshall, and First State Bank, Sam G. Daniel, Pres. of both, Marshall, Tex., plan merging as First State Bank with Sam D. Daniel, Pres.

(Continued on page 92)

BRIXMENT protects winter masonry . . .

BRIMENT mortar, like any other mortar containing water, is not freeze-proof. Nevertheless it is used regularly for mid-winter masonry even in the severest northern climates. In fact during the winter months more BRIXMENT is sold in proportion to the volume of building construction than at any other time.

BRIXMENT mortar sets up faster than portland-cement-and-lime mortar in which a large quantity of lime is used and this set can be made to take place at any temperature before freezing occurs by heating the sand and water. Once BRIXMENT mortar has set, it remains sound and unimpaired no matter how long and severe the freezing period may be.

The oily content of BRIXMENT which reduces the freezing point of the mortar gives further protection in freezing weather. Send for architect's handbook. Louisville Cement Company, Incorporated, Louisville, Ky.

District Sales Offices: 1610 Builders Bldg., Chicago; 301 Rose Bldg., Cleveland; 602 Murphy Bldg., Detroit; 101 Park Ave., New York

BRIXMENT for Mortar and Stucco

When a concrete mixer is used, the mortar can be heated by means of a torch attached to the mixer so that the flame is thrown inside the drum. If the weather is not too severe, this method alone will suffice.



January 16, 1930

FINANCIAL NEWS

(Continued from page 90)

Baltimore Co., securities and investment company of Baltimore Trust Co., Donald Symington, Pres. of both, Baltimore, Md., opened with paid-in capital and surplus of \$5,000,000, on banking floor of Baltimore Trust Co., 25 E. Baltimore St.; direct management of company will be under Iredell W. Iglehart and Henry B. Thomas, Jr., vice presidents of both companies; owned by Baltimore Trust Co. shareholders.

Barnett National Bank, W. R. McQuald, Pres., Jacksonville, Fla., plans increasing capital, \$1,000,000 to \$1,500,000.

Canton Exchange Bank, F. H. Parker, Pres., acquired Madison County Bank, D. H. Blackstone, Pres., both Canton, Miss.; capital \$110,000.

Citizens National Bank, B. P. Smith, Pres., and Farmers National Bank, J. W. Wilson, Pres., both Chickasha, Okla., merged as Citizens-Farmers National Bank of Chickasha, with \$200,000 capital.

Citizens State Bank, and First National Bank, T. C. Phillips, Pres., both Paduach, Tex., merged as First National Bank, with \$75,000 capital; P. C. Phillips, Pres.

Consolidation of Citizens National Bank, Thos. W. Martin, Pres., and Merchants & Farmers Bank, S. N. Myers, Pres., both Martinsburg, W. Va., as Merchants and Citizens National Bank of Martinsburg, has been approved by both boards; \$250,000 capital, with \$10-per-share par value instead of present \$100 per share; Thos. W. Martin, Pres.; Edward Rutledge, Cashier; John T. Nadembousch, head of new trust dept.; awaiting formal approval of Comptroller of Currency, formal notification of State Banking Dept., etc.; will enlarge and remodel Merchants and Farmers Bank Bldg.

First National Bank, C. C. Hatchet, Pres., and Commercial National Bank, G. A. Mason, Pres., both Durant, Okla., plan merging, Feb. 15, as First National Bank of Durant, with \$1,500,000 resources; G. A. Mason, Pres.

First National Bank & Trust Co., H. E. O'Bryant, Pres., Owensboro Banking Co., L. D. Ray, Pres., and Farmers & Traders Bank, Ben Wile, Pres., plan merging about Mar. 3 as First-Owensboro Bank & Trust Co., Third and Frederica St., Owensboro, Ky.; Henry O'Bryant, Chmn. of Bd.; H. B. Eagles, Pres.; Henry Bottorf, Cashier; will continue Owensboro bank as branch, with M. L. Ogden, Mgr.

First Industrial Bank, Paul Montague, Pres., Winston-Salem, N. C., will establish branch office in Goldsmith Bldg., Franklin and N. Main St., Mount Airy, N. C., with

George K. Snow, Cashier; Dr. Moir S. Martin, Chmn. of Executive Committee of Mount Airy branch.

First Savings Bank, Itta Bena, Miss., increased capital, \$30,000 to \$100,000, and purchased First National Bank, C. C. Moore, Pres., Itta Bena; to be known as First Savings Bank & Trust Co.; C. C. Moore, Pres.; W. S. Bissell, Cashier.

First State Bank and Bank of Marshall, Sam G. Daniel, Pres. of both, Marshall, Ark., consolidated giving First State Bank over \$500,000 resources; Bank of Marshall going out of business.

Fulton Building & Loan Assn., Fulton, Ky., plans increasing capital, \$1,500,000 to \$2,000,000.

Hamilton National Associates, Inc., Chattanooga, Tenn., acquired controlling interest in Bank of LaFayette, LaFayette, Ga. 1-2

International Building & Loan Assn., J. K. Kemp, Sec.-Treas., 115 E. Eighth St., Chattanooga, Tenn., absorbed Tennessee Mutual Building & Loan Assn.; will issue \$2,500,000 stock of four classes at \$50 per share.

James H. Brown, Pres. of National Bank of Kentucky, Louisville, Ky., purchased stock of former U. S. Senator Richard P. Ernst in Peoples-Liberty Bank & Trust Co., Covington, Ky.

J. G. Bright, Jacksonville, Fla., Sec.-Treas. Comptroller, of Almours Securities, Inc., Alfred I. Du Pont, Pres., applied for charter for Florida National Bank of Tampa, with \$500,000 capital and \$125,000, surplus; plans leasing banking quarters of Citizens Bank & Trust Co. which recently closed.

Mercantile Securities Corp., Dallas, Tex., plans increasing capital, \$300,000 to \$400,000.

Peoples State Bank of Carolina, R. G. Rhett, Jr., Pres., Columbia, absorbed National Bank of Sumter, J. P. Booth, Pres., Sumter, S. C.

Public National Bank & Trust Co., J. H. Tallichet, Pres., and Guaranty National Bank, J. D. Dyer, Pres., both Houston, Tex., merged as Public National Bank & Trust Co., of Houston, capital \$800,000.

Suburban Perpetual Building & Loan Assn., Covington, Ky., plans increasing capital, \$1,000,000 to \$1,500,000.

Stockholders of Safe Deposit & Trust Co., John J. Neilligan, Pres., Baltimore, Md., ratified plan to increase capital stock from 12,000 shares of \$1,200,000 par value to 20,000 shares of \$2,000,000 par value.

Stockholders of National Bank of Baltimore, John Schoenewolf, Pres., Baltimore, Md., ratified deal of Union Trust Co., John

M. Dennis, Pres., to acquire stock of National Bank of Baltimore, by exchange on basis of one share of stock of National Bank of Baltimore for 5 1/4 shares of stock of Union Trust Co.; stockholders of Union Trust Co., ratified deal in Dec. 10-31

Stockholders of Florida National Bank, Arthur F. Perry, Sr., Pres., Jacksonville, Fla., approved increase in capital stock of bank, from \$1,000,000 to \$1,500,000, also adopted recommendation of directors to change par value of shares of association from \$100 par to \$25 par.

Sylvania Banking Co., J. A. Mills, Pres., Sylvania, Ga., will change name to Bank of Sylvania County, and increase capital, \$25,000 to \$50,000.

Tennessee Building & Loan Assn., B. W. Graves, Pres., Nashville, Tenn., plans increasing capital, \$6,000,000 to \$7,500,000.

Workingmen's Loan & Building Assn. of Newport, Newport, Ky., plans increasing capital, \$2,200,000 to \$3,000,000.

\$5,000,000 Investment Company

The Baltimore Trust Company which recently consolidated with the Century Trust Company, both of Baltimore, has organized the Baltimore Company for the purpose of underwriting, wholesaling and retailing investment securities and to further develop the business formerly conducted by the company's investment department. The new company has a paid in capital stock of \$5,000,000 and is owned by stockholders of the Baltimore Trust Company. Donald Symington, president of the Baltimore Trust Company, is also president of the Baltimore Company and all its directors and officers are connected with the former. The direct management of the company will be in charge of Iredell W. Iglehart and Henry B. Thomas, Jr., vice-presidents of both institutions.

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